

# Michael W. Wandling

mwandling@gmail.com

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## **EDUCATION**

- 2006 Bachelor of Science, *magna cum laude*, Integrative Biology, University of Illinois College of Liberal Arts and Science, Urbana-Champaign, IL
- Minor in Chemistry
- 2011 Doctor of Medicine, Northwestern University Feinberg School of Medicine, Chicago, IL
- Distinction in Research
- 2016 Master of Science, Health Services and Outcomes Research, Northwestern University Feinberg School of Medicine, Chicago, IL

## **CLINICAL TRAINING**

- 2011-2018 General Surgery Residency, Northwestern University Feinberg School of Medicine, Chicago, IL
- 2011-2014 Internship and Junior Surgical Residency
  - 2016-2018 Senior Surgical Residency
- 2018-2020 Acute Care Surgery Fellowship, The University of Texas Health Science Center at Houston McGovern Medical School, Houston, TX
- 2018-2019 Trauma Surgery Fellowship
  - 2019-2020 Surgical Critical Care Fellowship

## **RESEARCH TRAINING**

- 2006-2007 Full-Time Research Assistant, Kawai Laboratory, University of Iowa Carver College of Medicine, Iowa City, IA
- 2009-2011 Research Thesis Program, Northwestern University Feinberg School of Medicine, Chicago, IL
- 2014 Fundamentals of Surgical Research Course and Career Development Course, Association for Academic Surgery, San Francisco, CA
- 2014 Outcomes Research Course, American College of Surgeons, Chicago, IL
- 2014-2015 Academy for Quality and Safety Improvement, Northwestern University Feinberg School of Medicine, Chicago, IL
- 2014-2016 Post-Doctoral Research Fellow in Health Services and Outcomes Research, Institute for Public Health & Medicine, Northwestern University Feinberg School of Medicine, Chicago, IL
- 2014-2016 Clinical Research Scholar, Clinical Scholars in Residence Program, American College of Surgeons, Chicago, IL
- 2014-2016 Physician-Scientist Training Program, Northwestern University Feinberg School of Medicine, Chicago, IL
- 2015 Clinical Trials Methods Course, American College of Surgeons, Chicago, IL

## **RESEARCH FUNDING**

- 2014-2015 Trainee, NIDRR ARRT (T32 Award Equivalent), Grant Number H133P130013, "Northwestern University Advanced Rehabilitation Research Training Program" (PI: Allen W. Heinemann, PhD, Director of Center for Rehabilitation Outcomes Research, Northwestern University).

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- 2015-2016 PI, NIH/NIGMS F32 Award, Grant Number 1F32GM113513-01, "The Impact of Public Reporting on Clinical Outcomes and Quality Improvement" (Mentor: Karl Y. Bilimoria, MD MS, Director of Surgical Outcomes and Quality Improvement Center, Northwestern University).  
▪ \$173,862

### **CLINICAL, ACADEMIC, AND RESEARCH APPOINTMENTS**

#### Clinical

- 2019-2020 Staff Physician, Memorial Hermann Southwest Hospital, The University of Texas Health Sciences Center at Houston, Houston, TX
- 2019-Present Staff Physician, Memorial Hermann Hospital – Texas Medical Center, The University of Texas Health Sciences Center at Houston, Houston, TX
- 2019-Present Staff Physician, Lyndon B. Johnson Hospital, Harris Health System, Houston, TX

#### Academic

- 2020-Present Assistant Professor of Surgery, Division of Acute Care Surgery, Department of Surgery, McGovern Medical School, The University of Texas Health Sciences Center at Houston, Houston, TX

#### Research

- 2018-2020 Co-investigator, "Blunt bowel and mesenteric injury: A WTA Multicenter Prospective Observational Study", The University of Texas Health Sciences Center at Houston, Houston, TX
- 2019-Present Co-investigator, "Ketamine for Acute Pain after Trauma: KAPT Trial", The University of Texas Health Sciences Center at Houston, Houston, TX

### **AWARDS, HONORS, AND DISTINCTIONS**

#### Undergraduate

- Alpha Lambda Delta Freshman Honors Society, University of Illinois
- Golden Key International Honors Society, University of Illinois
- National Society of Collegiate Scholars, University of Illinois
- Phi Eta Sigma Honors Society, University of Illinois
- The Phi Beta Kappa Society, University of Illinois
- Edmund J. James Scholar, University of Illinois
- Graduated *magna cum laude*

#### Medical School

- Grace Malstrom Besser Scholar, Northwestern University Feinberg School of Medicine
- Graduated with Distinction in Research

#### Residency

- Trauma Resident of the Year, Cook County Trauma Unit, 2018
- Article of the Year, *JAMA Surgery*, 2018
- Allen B. Kanavel Surgical Scholar Award, Northwestern University Feinberg School of Medicine, 2017
- Travel Scholarship, Trauma, Critical Care & Acute Care Surgery Conference, 2017
- Top-Rated Research Project, Academic Surgical Congress, Association for Academic Surgery and Society of University Surgeons, 2016

- International Travel Award, Society of University Surgeons, 2016
- 1<sup>st</sup> Place Clinical Research Paper, Region V Trauma Research Paper Competition, ACS Committee on Trauma, 2016
- 1<sup>st</sup> Place Clinical Research Paper, Chicago Trauma Research Paper Competition, Chicago Committee on Trauma, 2016
- 1<sup>st</sup> Place Clinical Research Paper, Chicago Trauma Research Paper Competition, Chicago Committee on Trauma, 2015
- Trauma Resident Education Fund Scholarship, Chicago Committee on Trauma, 2015

**CERTIFICATION AND LICENSURE**

**Board Certifications**

- 2014 National Board of Medical Examiners
- 2019 Board Certified General Surgeon, American Board of Surgery

**Professional Certifications**

- 2011-Present Basic Life Support Provider
- 2011-Present Advanced Life Support Provider
- 2013-Present Advanced Trauma Life Support Provider
- 2014-Present Advanced Trauma Life Support Instructor
- 2014-Present Fundamentals of Laparoscopic Surgery, Society of American Gastrointestinal and Endoscopic Surgeons
- 2017-Present Fundamentals of Endoscopic Surgery, Society of American Gastrointestinal and Endoscopic Surgeons
- 2018-Present Advanced Surgical Skills for Exposure in Trauma, American College of Surgeons
- 2019-Present Basic Endovascular Skills for Trauma, American College of Surgeons

**Licenses**

- 2014-Present Medical License, Medical Board of Illinois (License Number: 036136749)
- 2018-Present Medical License, Texas Medical Board (License Number: R7923)

**PROFESSIONAL SOCIETY MEMBERSHIPS**

- 2009-Present Association for Academic Surgery
  - 2009-2011: Medical Student Member
  - 2011-Present: Candidate Member
- 2010-2018 Chicago Metropolitan Trauma Society
  - 2014-2017: Executive Board Member
  - 2014-2017: Chairman of Website Committee
- 2013-Present American College of Surgeons, Resident Member
- 2014-2016 Surgical Outcomes Club
- 2015-2016 Academy Health
- 2015-Present Eastern Association for the Surgery of Trauma, Resident Member
- 2019-Present American Association for the Surgery of Trauma, Associate Member

**NATIONAL COMMITTEES**

- 2014-2016 ACS Quality Manual Editorial Committee, American College of Surgeons
- 2014-2016 ACS NSQIP Annual Conference Program Committee, American College of Surgeons
- 2014-2018 ACS NSQIP Emergency General Surgery Pilot Advisory Committee, American College of Surgeons
- 2015 ACS TQIP Best Practices in the Management of Orthopaedic Trauma Expert Panel, American College of Surgeons

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- 2015-2016 ACS Committee on Trauma Performance Measures Work Group, American College of Surgeons  
2015-2016 ACS Verification Standards Committee, American College of Surgeons  
2016-2017 ACS Committee on Trauma Coding and Reimbursement Workgroup, American College of Surgeons  
2019-Present Healthcare Economics Committee, American Association for the Surgery of Trauma  
2020-Present Publications Committee, Association for Academic Surgery

### **HOSPITAL/INSTITUTIONAL/ADMINISTRATIVE COMMITTEES**

- 2008-2009 Loyal Davis Surgical Society Executive Board, Northwestern University Feinberg School of Medicine  
2014-2016 Pilot Grant Advisory Committee, Illinois Surgical Quality Improvement Collaborative  
2014-2016 Semi-Annual Conference Program Committee, Illinois Surgical Quality Improvement Collaborative  
2014-2016 Surgical Catheter-Associated Urinary Tract Infection Committee, Northwestern Memorial Hospital  
2014-2018 Trauma Quality Management Committee, Northwestern Memorial Hospital  
2015 Medication Reconciliation Clinical Care Evaluation Committee, Northwestern Memorial Hospital  
2016 Postdoctoral Fellowship Executive Committee, Center for Healthcare Studies, Institute for Public Health and Medicine, Northwestern University Feinberg School of Medicine

### **QUALITY IMPROVEMENT INITIATIVES**

- 2012-2015 Reducing Arterial Blood Gas Utilization By Implementing Routine End-Tidal CO<sub>2</sub> Monitoring, Project Leader  
2014-2015 Surgical Catheter-Associated Urinary Tract Infection Reduction Through Decreasing Peri-Operative Catheter Utilization, Team Member

### **EDITORIAL/REVIEW RESPONSIBILITIES**

- 2014-2016 ACS NSQIP Conference Abstract Reviewer, American College of Surgeons  
2014-2016 ACS Quality Manual Editor, American College of Surgeons  
2015-2016 Pilot Grant Application Reviewer, Illinois Surgical Quality Improvement Collaborative  
2017-2018 Ad Hoc Reviewer, *JAMA*  
2018 Ad Hoc Reviewer, *PLOS One*  
2020 Ad Hoc Reviewer, *Journal of Surgical Research*

### **TEACHING ACTIVITIES/RESPONSIBILITIES**

- 2012-2017 Intern Trauma Conference Instructor, Northwestern University Feinberg School of Medicine  
2014-2016 National Student Leadership Council Surgical Simulation Instructor, Northwestern University Feinberg School of Medicine  
2014-Present Advanced Trauma Life Support Instructor, Provider, Refresher, and Instructor Courses, American College of Surgeons  
2020-Present Medical Student Clerkship Acute Abdomen Instructor, The University of Texas McGovern Medical School

**PUBLICATIONS**

1. Kawai, Masataka, Xiaoying Lu, Sarah E. Hitchcock-DeGregori, Kristen J. Stanton, and **Michael W. Wandling**. Tropomyosin Period 3 Is Essential for Enhancement of Isometric Tension in Thin Filament-Reconstituted Bovine Myocardium. *Journal of Biophysics*, vol. 2009.
2. **Wandling, MW** and An, G. A case report of thoracic compartment syndrome in the setting of penetrating chest trauma and review of the literature. *World Journal of Emergency Surgery*, 2010, 5:22.
3. Naughton, Peter A., **Michael Wandling**, Sachin Phade, Manuel Garcia-Toca, James C. Carr, Heron E. Rodriguez. Intimal angiosarcoma causing abdominal aortic rupture. *Journal of Vascular Surgery*, 2011;53(3):818-21.
4. **Wandling, Michael W.**, Andrew W. Hoel, Shari L. Meyerson, Heron E. Rodriguez, Michael B. Shapiro, Mamta Swaroop, Ankit Bharat. Complex Intrathoracic Tracheal Injury in an Asymptomatic Patient. *American Journal of Respiratory and Critical Care Medicine*, 2015;92(2):e20-e21.
5. **Wandling, Michael W.** and Guillaumondegui, OD. Eliminating the Confusion Surrounding Concussions in Sports. *JAMA*, 2015;314(13):1388-9.
6. **Wandling, MW**, Bilimoria KY. Review of: Kummerow Broman K, Oyefule OO, Phillips SE, et al. Postoperative Care Using a Secure Online Patient Portal: Changing the (Inter)Face of General Surgery. *Selected Readings in General Surgery*, 2016;42(2):e1.
7. **Wandling, Michael W.**, ES Hungness, ES Pavey, JJ Stulberg, B Schwab, AD Yang, MB Shapiro, KY Bilimoria, CY Ko, AB Nathens. Nationwide Assessment of Trends in Choledocholithiasis Management in the United States from 1998-2013. *JAMA Surgery*, 2016;151(12):1125-1130.
8. **Wandling, Michael W.**, Jess J. Behrens, Renee Y. Hsia, and Marie L. Crandall. Geographic Access Disparities in Urban Trauma Care: Defining the Problem and Identifying a Solution. *American Journal of Surgery*, 2016;212(4):587-591.
9. **Wandling, Michael W.**, CA Minami, JK Johnson, K O'Leary, AD Yang, JL Holl, KY Bilimoria. Development of a Conceptual Model for Surgical Quality Improvement Collaboratives. *JAMA Surgery*, 2016;151(12):1181-1183.
10. **Wandling, Michael W.**, AB Nathens, MB Shapiro, ER Haut. Police Transport vs. Ground EMS: A Trauma System Level Evaluation of Pre-Hospital Care Policies and their Effect on Clinical Outcomes. *The Journal of Trauma and Acute Care Surgery*, 2016;81(5):931-935.
11. **Wandling, Michael W.**, AB Nathens, MB Shapiro, ER Haut. Re: Towards a Broader View of Police Prehospital Transport. *The Journal of Trauma and Acute Care Surgery*, 2017;82(4):821-822.
12. Shah, R, E Pavey, M Ju, R Merkow, R Rajaram, **M Wandling**, ME Cohen, A Dahlke, A Yang, K Bilimoria. Evaluation of Readmissions due to Surgical Site Infections: A Potential Target for Quality Improvement. *American Journal of Surgery*, 2017;214(5):773-779.
13. **Wandling, Michael W.**, CY Ko, PE Bankey, C Cribari, HG Cryer, JJ Diaz, TM Duane, SM Hameed, MM Hutter, MH Metzler III, JL Regner, PM Reilly, HD Reines, JL Sperry, KL Staudenmayer, GH Utter, ML Crandall, KY Bilimoria, AB Nathens. Expanding the Scope of Quality Measurement in Surgery to Include Non-Operative Care: Results from the ACS NSQIP Emergency General Surgery Pilot. *The Journal of Trauma and Acute Care Surgery*, 2017;83(5):837-845.
14. **Wandling, Michael W.**, AB Nathens, MB Shapiro, ER Haut. The Association between Pre-Hospital Mode of Transport and Mortality in Penetrating Trauma: A Trauma System Level Assessment of Private Vehicle vs. Ground EMS Transportation. *JAMA Surgery*, 2018;153(2):107-113.
15. **Wandling, Michael W.**, ER Haut. Dangers of Private Vehicle Transportation vs Emergency Medical Services Transportation-Reply. *JAMA Surgery*, 2018, 153(6):596-597.

16. **Wandling, Michael W.**, BA Cotton. Prehospital care is critical to improving outcomes after major trauma. *British Journal of Surgery*, 2020;107(4):329-331.
17. Dodwad, SJ, **MW Wandling**, LS Kao. How should SPLASH inform the care of blunt splenic trauma patients? *JAMA Surgery*, in press.

#### **PUBLISHED BOOK CHAPTERS**

1. An, G and **Wandling, M.** Agent-Based Modeling Approaches to Multi-Scale Systems Biology: An example Agent-Based Model of Acute Pulmonary Inflammation. In: *Systems Biology*. Springer, 2013.
2. **Wandling, M** and Swaroop, M. Necrotizing Soft Tissue Infections. In: *Resident Readiness: Surgery*. McGraw Hill, 2014.
3. **Wandling, M** and Swaroop, M. Post-Operative Wound Complications. In: *Resident Readiness: Surgery*. McGraw Hill, 2014.
4. **Wandling, Michael**, Michael Shapiro, and Mamta Swaroop. Small Bowel. In: McElroy LM and Webb TP eds. *Surgery Review Illustrated 2e*. McGraw Hill, 2017.
5. **Wandling, Michael W**, Clifford Y. Ko, and David B. Hoyt. Surgical Critical Care. In: *Optimal Resources for Surgical Quality and Safety*. American College of Surgeons, 2017.
6. **Wandling, Michael W**, Avery B. Nathens, and David B. Hoyt. Continual Quality Improvement in Acute Care Surgery. In: *Acute Care Surgery, Second Edition*. Lippincott Williams & Wilkins, 2018.
7. **Wandling, Michael W**, Ethan A. Taub. Critical Care. In: *Surgery PreTest Self-Assessment and Review, 14<sup>th</sup> edition*. McGraw-Hill Education/Medical, in press.

#### **SCIENTIFIC MEETING ABSTRACTS**

1. **Wandling, MW** and An, G. An Agent Based Model of Pulmonary Inflammation in the Surgical Patient: In silico translation of cellular and molecular mechanisms to clinical phenomena. *Journal of Surgical Research (ASC Abstracts Issue)* 2009, 151(2):300.
2. **Wandling, MW** and An, G. Characterizing the Dynamics of Nosocomial Pneumonia in the Surgical Patient with an Agent-Based Computational Model. *Surgical Infections*. 2009, 10(2):202-203.
3. **Wandling, M** and An, G. Multi-Scale Dynamic Knowledge Representation of Pulmonary Inflammation with an Agent-Based Model: From Gene Regulation to Clinical Phenomenon. *Journal of Surgical Research (ASC Abstracts Issue)* 2010, 158 (2):381.
4. **Wandling, MW**, JJ Behrens, RY Hsia, ML Crandall. Geographic Disparities in Access to Urban Trauma Care: Defining the Problem and Identifying a Solution. 21<sup>st</sup> Annual NRSA Trainees Research Conference.
5. **Wandling, MW**, JJ Behrens, RY Hsia, ML Crandall. Geographic Disparities in Access to Urban Trauma Care: Defining the Problem and Identifying a Solution. Academy Health Annual Research Meeting.
6. Yang, AD, **MW Wandling**, NF Siparsky, RD Kennedy, KJ Nelis, W Wilson, CM Gonzalez, K Schelling, C Perry, KY Bilimoria. Urinary Catheters Do Not Have To Be Removed If They Were Never Placed: A Formal Process Improvement Project To Decrease Utilization Of Urinary Catheters. 2015 ACS NSQIP Conference.
7. **Wandling, MW**, CA Minami, JK Johnson, K O'Leary, C Barnard, AR Dahlke, PR Farrell, AD Yang, JL Holl, KY Bilimoria. Development of a Conceptual Model for Surgical Quality Improvement Collaboratives. 2015 ACS NSQIP Conference.
8. **Wandling, MW**, JM Sternbach, MA Wasserman, ML Crandall, NM Issa, SJ Schwulst, KY Bilimoria, MB Shapiro, M Swaroop. Achieving Culture Change Through A Quality Improvement Initiative: Reducing Arterial Blood Gas Utilization By Implementing Routine End-Tidal CO2 Monitoring. 2015 ACS NSQIP Conference.

9. **Wandling, MW**, H Subacius, MB Shapiro, AB Nathens, ER Haut. Urban Private Vehicle Transport is Independently Associated with Higher Survival for Victims of Penetrating Trauma. 2015 American Association for the Surgery of Trauma (AAST) Annual Meeting.
10. **Wandling, MW**, MB Shapiro, AB Nathens, ER Haut. "Police Transport vs Ground EMS: A Trauma System Level Evaluation of Pre-Hospital Care Policies and their Effect on Clinical Outcomes." 2016 Eastern Association for the Surgery of Trauma (EAST) Annual Scientific Assembly.
11. MA Wasserman, JM Sternbach, **MW Wandling**, ML Crandall, NM Issa, SJ Schwulst, KY Bilimoria, MB Shapiro, M Swaroop. Reduction in Arterial Blood Gas Utilization Through Implementation of End-Tidal COT Monitoring. 2016 Association for Academic Surgery Academic Surgical Congress.
12. **Wandling, MW**, K Schelling, A Mikolajczak, W Wilson CM Gonzalez C Perry, KY Bilimoria AD Yang. No Catheter, No CAUTI: A Formal Process Improvement Project to Reduce Urinary Catheter Use in the OR. 2016 Association for Academic Surgery Academic Surgical Congress.
13. **Wandling, MW**, AB Nathens, ES Pavey, JW Chung, AD Yang, MB Shapiro, CY Ko, KY Bilimoria. Evaluating the Blind Spot of Surgical Quality: A National Assessment of Non-Operative Management. 2016 Association for Academic Surgery Academic Surgical Congress.
14. **Wandling, MW**, ES Hungness, JJ Stulberg, ES Pavey, B Schwab, AD Yang, MB Shapiro, KY Bilimoria, CY Ko, AB Nathens. The Disappearance of Common Bile Duct Exploration from the Surgical Armamentarium: A National Assessment of Trends in Choledocholithiasis Management from 1998-2011. 2016 Pacific Coast Surgical Association Annual Meeting.
15. Pavey, ES, J Lee, AR Dahlke, **MW Wandling**, KY Bilimoria. Are the Best Hospitals the Best for Every Patient? Development of Patient Profile-Specific Hospital Quality Rankings. 2016 ACS NSQIP Conference, 2016 ACS NSQIP Conference.
16. **Wandling, MW**, CY Ko, PE Bankey, C Cribari, HG Cryer, JJ Diaz, TM Duane, SM Hameed, MM Hutter, MH Metzler III, JL Regner, PM Reilly, HD Reines, JL Sperry, KL Staudenmayer, GH Utter, ML Crandall, KY Bilimoria, AB Nathens. Expanding the Scope of Quality Measurement in Surgery to Include Non-Operative Care: Results from the ACS NSQIP Emergency General Surgery Pilot. 2016 American Association for the Surgery of Trauma Annual Meeting.
17. **Wandling, MS**, E Fox, B Cotton, C Wade, J Podbielski, X Xun, J Cuschieri, R Kozar, L O'Meara, A Celii, W Star, C Cothren, N Werner, R McIntyre, S Urban, W Biffl, K Schafer, L Kornblith, R Callcut, J Dunn, B Smoot, K Peck, A Rooney, T Schroepfel, C Decke, r S Leichtle, M Aboutanos, D Lollar, E Ambroz, R Russo, H Alam, M McNutt. Multi-center validation of the Bowel Injury Prediction Score for the early identification of need to operate in blunt bowel and mesenteric injuries. 2020 American Association for the Surgery of Trauma Annual Meeting. *Accepted for presentation.*

### **SCIENTIFIC MEETING PRESENTATIONS**

1. "An Agent Based Model of Pulmonary Inflammation in the Surgical Patient: In silico translation of cellular and molecular mechanisms to clinical phenomena." 4<sup>th</sup> Annual Academic Surgical Congress, Ft. Myers, FL, February 6, 2009.
2. "Characterizing the Dynamics of Nosocomial Pneumonia in the Surgical Patient with an Agent-based Computational Model." 3rd Combined Meeting of the Surgical Infection Societies of North America and Europe. Chicago, IL, May 8, 2009.
3. "Multi-Scale Dynamic Knowledge Representation of Pulmonary Inflammation with an Agent-Based Model: from Gene Regulation to Clinical Phenomenon." 5<sup>th</sup> Annual Academic Surgical Congress, San Antonio, TX, February 5, 2010.

4. "Geographic Disparities in Access to Urban Trauma Care: Defining the Problem and Identifying a Solution." 21<sup>st</sup> Annual NRSA Trainees Research Conference, Minneapolis, MN, June 13, 2015.
5. "Geographic Disparities in Access to Urban Trauma Care: Defining the Problem and Identifying a Solution." 2015 Academy Health Annual Research Meeting, Minneapolis, MN, June 14, 2015.
6. "Development of a Conceptual Model for Surgical Quality Improvement Collaboratives." American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP) National Conference, Chicago, IL, July 26, 2015.
7. "Achieving Culture Change Through A Quality Improvement Initiative: Reducing Arterial Blood Gas Utilization By Implementing Routine End-Tidal CO2 Monitoring." American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP) National Conference, Chicago, IL, July 26, 2015.
8. "Urban Private Vehicle Transport is Independently Associated with Higher Survival for Victims of Penetrating Trauma." The American Association for the Surgery of Trauma Annual Meeting, Las Vegas, NV, September 9, 2015.
9. "The Association between Pre-Hospital Mode of Transport and Mortality following Penetrating Injuries in Urban Trauma Systems." Chicago Committee on Trauma Paper Competition, Chicago, IL, October 2, 2015.
10. "What About Emergency Surgery Patients Who Don't Have Surgery? A National Assessment Of Non-Operative Management in Emergency General Surgery." Chicago Committee on Trauma Paper Competition., Chicago, IL, October 2, 2015.
11. "What About Emergency Surgery Patients Who Don't Have Surgery? A National Assessment Of Non-Operative Management in Emergency General Surgery." ACS Committee on Trauma Region V Paper Competition, Minneapolis, MN, December 4, 2015.
12. "Police Transport vs Ground EMS: A Trauma System Level Evaluation of Pre-Hospital Care Policies and their Effect on Clinical Outcomes." Eastern Association for the Surgery of Trauma (EAST) Annual Scientific Assembly, San Antonio, TX, January 13, 2016.
13. "No Catheter, No CAUTI: A Formal Process Improvement Project to Reduce Urinary Catheter Use in the OR." Association for Academic Surgery Academic Surgical Congress, Jacksonville, FL, February 3, 2016.
14. "Evaluating the Blind Spot of Surgical Quality: A National Assessment of Non-Operative Management." 2016 Association for Academic Surgery Academic Surgical Congress, Jacksonville, FL, February 4, 2016.
15. "The Disappearance of Common Bile Duct Exploration from the Surgical Armamentarium: A National Assessment of Trends in Choledocholithiasis Management from 1998-2011." 2016 Pacific Coast Surgical Association Annual Meeting, Kohala Coast, HI, February 16, 2016.
16. "Evaluating the Blind Spot of Surgical Quality: A National Assessment of Non-Operative Management." 2016 Congress of the European Society for Surgical Research, Prague, Czech Republic, May 28, 2016.
17. "Expanding the Scope of Quality Measurement in Surgery to Include Non-Operative Care: Results from the ACS NSQIP Emergency General Surgery Pilot." 2016 American Association for the Surgery of Trauma Annual Meeting, Waikoloa, HI, September 17, 2016.
18. "Expanding the Scope of Quality Measurement in Surgery to Include Non-Operative Care: Results from the ACS NSQIP Emergency General Surgery Pilot." Chicago Committee on Trauma Paper Competition, Chicago, IL, September 23, 2016.
19. "Expanding the Scope of Quality Measurement in Surgery to Include Non-Operative Care: Results from the ACS NSQIP Emergency General Surgery Pilot." ACS Committee on Trauma Region V Paper Competition, Detroit, MI, November 9, 2016.
20. "Multi-center validation of the Bowel Injury Prediction Score for the early identification of need to operating in blunt bowel and mesenteric injuries." 2020 American Association for the Surgery of Trauma Annual Meeting, Waikoloa, HI, *accepted for presentation*.



**INVITED PRESENTATIONS**

1. "Management of Penetrating Thoracoabdominal Trauma." Chicago Metropolitan Trauma Society, Chicago, IL, November 11, 2011.
2. "Perception of Injury in Trauma Patients." Nursing Trauma Lecture Series 2012, Chicago, IL, December 3<sup>rd</sup> and 4<sup>th</sup>, 2012.
3. "Managing Concurrent Penetrating Neck and Chest Injuries." Chicago Metropolitan Trauma Society, Chicago, IL, January 22, 2014.
4. "Thoracic Crush Injury: Tracheal Transection, Great Vessel Injuries, Blunt Cardiac Injury, and ECMO." Chicago Metropolitan Trauma Society, Chicago, IL, October 15, 2014.
5. "Lung Transplant." Northwestern University Feinberg School of Medicine Department of Surgery Grand Rounds, Chicago, IL, February 12, 2015. *Presented with A Bharat and C Mehta.*
6. "Performance Measurement and the Trauma Surgeon." American College of Surgeons Committee on Trauma 2015 Annual Meeting, Chicago, IL, March 13, 2015. *Presented with R Stewart.*
7. "Reduction in Arterial Blood Gas Utilization Through Implementation of End-Tidal CO<sub>2</sub> Monitoring." Northwestern University Feinberg School of Medicine Department of Surgery Grand Rounds, Chicago, IL, April 2, 2015. *Presented with JM Sternbach and MA Wasserman.*
8. "Pre-Hospital Trauma Care: The Impact of Mode of Transport on Mortality in Urban Trauma Systems." Northwestern University Feinberg School of Medicine Department of Surgery Research Conference, Chicago, IL, April 28, 2015.
9. "ACS NSQIP Emergency General Surgery Pilot: Updates, Preliminary Data, and Future Direction." American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP) National Conference, Chicago, IL, July 26, 2015. *Presented with AB Nathens.*
10. "What About Surgical Patients Who Don't Have Surgery? A National Assessment of Trends in Non-Operative Management and Efforts to Eliminate the Blind Spot in Surgical Quality." Northwestern University Feinberg School of Medicine Department of Surgery Research Conference, Chicago, IL, September 22, 2015.
11. "Evaluating the Blind Spot of Surgical Quality: A National Assessment of Non-Operative Management." Northwestern University Feinberg School of Medicine Department of Surgery Grand Rounds, Chicago, IL, February 11, 2016.
12. "Improving Patient Care through Quality Improvement and Research: The Trainee Advantage." Medical Student Phase 3 Applied Anatomical Medicine Curriculum, Northwestern University Feinberg School of Medicine, April 28, 2016.
13. "Emergency General Surgery Pilot: Initial Results and Benchmarking Reports." American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP) National Conference, San Diego, CA, July 17, 2016. *Presented with AB Nathens.*
14. "Expanding the Scope of Quality Measurement in Surgery to Include Non-Operative Care: Results from the ACS NSQIP Emergency General Surgery Pilot". Edelstone-Bendix Research Day, Northwestern University Feinberg School of Medicine Department of Surgery, June 9, 2017.
15. "Scoop and Run or Stay and Play? Evaluating the Association between Prehospital Trauma Care and Mortality in Urban Trauma". Edelstone-Bendix Research Day, Northwestern University Feinberg School of Medicine Department of Surgery, June 15, 2018.
16. "Scoop and Run, Stay and Play, or Something In-Between? A Trauma System Level Evaluation of Prehospital Transport and Outcomes". Injury Meeting, The University of Texas Health Science Center at Houston Red Duke Trauma Institute, July 20, 2018.
17. "Enhanced Recovery after Surgery (ERAS) for Emergency General Surgery". American College of Surgeons Quality and Safety Conference, Washington D.C., July 21, 2019.

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18. "Expanding the Scope of Surgical Quality Assessment Through Health Services & Outcomes Research". The University of Texas McGovern Medical School Department of Surgery Grand Rounds, Houston, TX, May 28, 2020.

**INVITED PANELIST/DISCUSSANT**

1. New England Journal of Medicine Ask the Authors & Experts: Results of the FIRST Trial – National Cluster-Randomized Trial of Duty Hour Flexibility in Surgical Training. NEJM Group Open Forum, February 8-17, 2016.
2. Best Clinical Research Award Session Judge. 51<sup>st</sup> Congress of the European Society of Surgical Research, Prague, Czech Republic, Friday May 27, 2016.
3. Surgical Anatomy for Adult SCRs. American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP) National Conference, San Diego, CA, July 17, 2016.
4. EAST Twitter Journal Club: Police transport versus ground EMS: A trauma system-level evaluation of prehospital care policies and their effect on clinical outcomes. Eastern Association for the Surgery of Trauma (EAST) Twitter Journal Club, November 7-8, 2016.