

Amber W. Trickey, PhD, MS, CPH

CONTACT INFORMATION

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650.725.7003

EDUCATION

University of Texas School of Public Health, 1200 Herman Pressler, Houston, TX 77030
Degree earned: PhD in Epidemiology
Minors: Biostatistics, Health Services Research
December 2012

University of Texas School of Public Health, 1200 Herman Pressler, Houston, TX 77030
Degree earned: MS in Epidemiology
Minor: Biostatistics
May 2008

Tulane University, School of Science and Engineering, Ste. 201, Boggs Center for Energy & Technology, New Orleans, LA 70118
Degree earned: BS in Biomedical Engineering
May 2003

CERTIFICATIONS

Certified in Public Health, National Board of Public Health Examiners, October 2008
SAS Base Programming, May 2014

ACTIVITIES AND HONORS

Finalist, Association of Program Directors in Surgery "Tools of the Trade" Competition, Surgical Education Week Annual Meetings, 2016 and 2017
Chapter Leader 2009-2011, University of Texas School of Public Health, Institute for Healthcare Improvement Open School
Member of Power Pipeline 2009, Mentoring program for emerging women leaders
Public Health Traineeship, University of Texas School of Public Health
Distinguished Scholar Award, Tulane University
Tulane Engineering and Computer Science Honor Society Academic Scholarship

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POSITIONS AND APPOINTMENTS

Senior Biostatistician

February 2017 – present

Stanford–Surgery Policy Improvement Research and Education (S-SPIRE) Center
Department of Surgery, Stanford University School of Medicine
300 Pasteur Drive, Stanford, CA 94305

Surgery Epidemiologist & Biostatistician

September 2014 – February 2017; March 2011 – October 2013

Advanced Surgical Technology and Education Center (ASTEC)
Department of Surgery, Inova Fairfax Hospital
3300 Gallows Road, Falls Church, VA 22042

Assistant Professor of Surgery

February 2016 – February 2017; May 2013 – October 2013

Virginia Commonwealth University School of Medicine, Inova Health System Campus
3300 Gallows Rd, Falls Church, VA 22042

Principal Healthcare Consultant

November 2013 – October 2014

Contractor for Centers for Disease Control and Prevention,
National Institute for Occupational Safety and Health
Project Lead for World Trade Center Health Program
Health Research and Analysis
7475 Wisconsin Ave., Ste. 525, Bethesda, MD 20814

Research Associate

January 2008 – March 2011

UT Houston—Memorial Hermann Center for Healthcare Quality and Safety
Department of Internal Medicine, University of Texas Medical School
University of Texas Health Science Center, 7000 Fannin, Suite 150, Houston, TX 77030

Senior Research Assistant

July 2004 – January 2008

Center for Clinical Research and Evidence-Based Medicine
Department of Pediatrics, University of Texas Medical School
University of Texas Health Science Center, 7000 Fannin, Suite 150, Houston, TX 77030

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COMMITTEE MEMBERSHIPS

Research and Development Committee

Consortium of Accredited Education Institutes, American College of Surgeons Division of Education

May 2016 – September 2018

Curriculum Committee

Inova Center for Advanced Medical Simulation, Inova Health System

April 2015 – February 2017

Curriculum Committee

Advanced Surgical Technology and Education Center, Inova Health System

September 2014 – February 2017

REVIEWER FOR CONFERENCE ABSTRACTS

1. AcademyHealth Annual Research Meeting – Measuring Safety, Quality, and Value
June 14-17, 2021; Online—Virtual
2. American Nurses Association Conference – Quality, Safety and Staffing
March 9–11, 2016; Disney Coronado Springs Resort; Lake Buena Vista, FL

REVIEWER FOR PEER-REVIEWED JOURNALS

1. Preventive Medicine, 2021
2. PLOS ONE, 2020
3. JAMA Network Open, 2019
4. BMJ Open, 2017
5. Clinical Epidemiology, 2016
6. Journal of Surgical Education, 2013
7. Neonatology, 2012
8. Quality and Safety in Health Care, 2010
9. Pediatrics, 2010
10. Research and Reports in Neonatology, 2010
11. Acta Paediatrica, 2009

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12. American Journal of Perinatology, 2008
13. Early Human Development, 2008
14. Noise Control Engineering Journal, 2008
15. Journal of the Acoustical Society of America, 2007

PEER-REVIEWED PUBLICATIONS

1. Davis RE, **Trickey AW**, Abrahamse P, Kato I, Ward K, Morris AM. The association of cumulative social risk and social support with receipt of chemotherapy among patients with advanced colorectal cancer. *JAMA Network Open*, in press.
2. Jaramillo J, Arnow K, **Trickey AW**, Dickerson K, Tran L, Wagner T, Bereknyei S, Harris A, Morris AM, Spain D, Knowlton, LM. Acquisition of Medicaid at the time of injury: an opportunity for securing insurance coverage. *Journal of Trauma and Acute Care Surgery*, in press.
3. Eddington H, McLeod M, **Trickey AW**, Barreto N, Maturen K, Morris AM. Patient-reported distress and age-related biomarkers among colorectal cancer patients. *Cancer Medicine*, in press.
4. Tirumalai A, George EL, Kashikar A, Langston A, Rothenberg KA, Barreto NB, **Trickey AW**, Arya S. Gender disparity in surgical society leadership and annual meeting program representation. *Journal of Surgical Research*, in press.
5. George EL, Hall DE, Youk A, Chen R, Kashikar A, **Trickey AW**, Varley PR, Shireman P, Shinall MC, Massarweh NN, Johanning J, Arya S. Association between patient frailty and postoperative mortality across multiple noncardiac surgical specialties. *JAMA Surgery*. 2021;156(1):e205152.
6. Seib CD, Meng T, Suh I, Cisco RM, Lin DT, Morris AM, **Trickey AW**, Kebebew E. Undertreatment of primary hyperparathyroidism in a privately insured U.S. population: decreasing utilization of parathyroidectomy despite expanding surgical guidelines. *Surgery*. 2021;169(1):87-93.
7. Rose L, Mattingly AS, Morris AM, **Trickey AW**, Ding Q, Wren SM. Surgical procedures in Veterans Affairs hospitals during the COVID-19 pandemic. *Annals of Surgery*. 2021;273(4):e129.

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8. Seib CD, Suh I, Meng T, **Trickey AW**, Smith AK, Finlayson E, Covinsky KE, Tamura MK, Kebebew E. Patient factors associated with parathyroidectomy in older adults with primary hyperparathyroidism. *JAMA Surgery*. 2021;156(4):334-342.
9. Ding Q, **Trickey AW**, Mudumbai S, Kamal RN, Sears ED, Harris AHS. Prevalence and factors associated with low-value preoperative testing for patients undergoing carpal tunnel release at an academic medical center. *Hand*. 2020. doi:10.1177/1558944720906498.
10. Kitamura R, Chen R, **Trickey AW**, Eisenberg D. Positive and negative independent predictive factors of weight loss after bariatric surgery in a Veteran population. *Obesity Surgery*. 2020;30(6):2124-2130.
11. Harris AHS, Barreto NB, **Trickey AW**, Merrell S, Meng T, Wagner TH, Govindarajan P. Are EMS bypass policies effective implementation strategies for intravenous alteplase for stroke? *Implementation Science Communications*. 2020;1:1-8.
12. Rothenberg KA, George EL, **Trickey AW**, Barreto NB, Johnson TM, Hall DE, Johanning JM, Arya S. Assessment of risk analysis index for prediction of mortality, major complications and length of stay in vascular surgery patients. *Annals of Vascular Surgery*. 2020;66:442-453.
13. Worth P, Leal J, Ding Q, **Trickey AW**, Chatzizacharias N, Soonawalla Z, et al. Pancreatic grade 3 neuroendocrine tumors behave similarly to neuroendocrine carcinomas following resection: a multi-center, international appraisal of the WHO 2010 and WHO 2017 staging schema for pancreatic neuroendocrine lesions. *HPB*. 2020;22(9):1359-1367.
14. Harris AH, Meerwijk EL, Ding Q, Trickey AW, Finlay AK, Schmidt EM, Curtin CM, Sears ED, Nuckols TK, Kamal RN. Testing proposed quality measures for treatment of carpal tunnel syndrome: feasibility, magnitude of quality gaps, and reliability. *BMC Health Services Research*. 2020;20(1):1-8.
15. Choi J, Zmary K, Barreto N, Tennakoon L, Davis KM, **Trickey AW**, Spain DA. Intravenous lidocaine as a non-opioid adjunct analgesic for traumatic rib fractures. *PloS one*. 2020;15(9):e0239896.
16. Forrester JA, Starr N, Negussie T, Shaps D, Adem M, Alemu S, Amenu D, Gebeyehu N, Habteyohannes T, Jiru F, Tesfaye A, Wayessa E, Chen R, **Trickey AW**, Bitew S, Bekele A, Weiser TG. Outcomes following implementation of Clean Cut, an adaptive, multimodal

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surgical infection prevention program for low resource settings: a prospective quality improvement study. *British Journal of Surgery*. 2020. <https://doi.org/10.1002/bjs.11997>

17. Neshatian L, Lee A, **Trickey AW**, Arnow K, Gurland B. Rectal prolapse: age-related differences in clinical presentation and what bothers women most. *Diseases of the Colon & Rectum*. 2020;64(5):609-616.
18. Rothenberg KA, George EL, Barreto N, Chen R, Samson K, Johanning J, **Trickey AW**, Arya S. Frailty as measured by the risk analysis index is associated with long-term death after carotid endarterectomy. *Journal of Vascular Surgery*. 2020;72(5):1735-1742.
19. Azad AD, Charles AG, Ding Q, **Trickey AW**, Wren SM. The gender gap and healthcare: associations between gender roles and factors affecting healthcare access in Central Malawi, June-August 2017. *Archives of Public Health*. 2020;78:119.
20. **Trickey AW**, Ding Q, Harris AHS. How accurate are the Surgical Risk Preoperative Assessment System (SURPAS) universal calculators in total joint arthroplasty? *Clinical Orthopaedics & Related Research*. 2020;478(2):241-251.
21. Korndorffer JR, Hawn MT, Spain DA, Knowlton LM, Azagury DE, Nassar AK, Lau JM, Arnow KD, **Trickey AW**, Pugh CM. Situating artificial intelligence in surgery: a focus on disease severity. *Annals of Surgery*. 2020;272(3):523-528.
22. Sceats LA, Dehghan MS, Rumer KK, **Trickey AW**, Morris AM, Kin C. Surgery, stomas, and anxiety and depression in inflammatory bowel disease: a retrospective cohort analysis of privately insured patients. *Colorectal Disease*. 2020;22(5):544-553.
23. Rumer KK, Dehghan MS, Sceats LA, **Trickey AW**, Morris AM, Kin C. Use of biologic medications does not increase postoperative complications among patients with ulcerative colitis undergoing colectomy: a retrospective cohort analysis of privately insured patients. *Diseases of the Colon & Rectum*. 2020;63(11):1524-1533.
24. Knowlton LM, Dehghan MS, Arnow K, **Trickey AW**, Tennakoon L, Morris AM, Spain DA. The impact of Medicaid expansion on trauma-related emergency department utilization: a national evaluation of policy implications. *Journal of Trauma and Acute Care Surgery*. 2020;88(1):59-69.

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25. George EL, Chen R, **Trickey AW**, Brooke B, Kraiss L, Mell MW, Goodney PP, Johanning J, Hockenberry J, Arya S. Variation in center-level frailty burden and the impact of frailty on long-term survival in patients undergoing repair for abdominal aortic aneurysms. *Journal of Vascular Surgery*. 2020;71(1):46-55.
26. Patel RA, Patel PD, Ashack K, Borrelli MR, **Trickey AW**, Wan DC. Compounding benefits of sentinel lymph node biopsy for perineal melanoma: a population-based retrospective cohort analysis. *Annals of Plastic Surgery*. 2020;84(5S):S257-S263.
27. George EL, Kashikar A, Rothenberg K, Barreto N, Chen R, **Trickey AW**, Arya S. Comparison of subjective surgeon assessment and objective frailty measurement in abdominal aortic aneurysm repair. *Journal of Surgical Research*. 2020;248:38-44.
28. Govindarajan P, Shiboski S, Grimes B, Cook L, Ghilarducci D, Meng T, **Trickey AW**. Effect of acute stroke care regionalization on intravenous alteplase use in two urban counties. *Prehospital Emergency Care*. 2020;24(4):505-514.
29. Rothenberg KA, George EL, **Trickey AW**, Chandra V, Stern JR. Delayed fasciotomy is associated with higher risk of major amputation in patients with acute limb ischemia. *Annals of Vascular Surgery*. 2019;59:195-201.
30. Mudumbai SC, Pershing S, Bowe T, Kamal R, Sears E, Finlay AK, Hawn M, Weng Y, **Trickey AW**, Mariano ER, Harris AHS. Development and validation of a predictive model for American Society of Anesthesiologists physical status. *BMC Health Services Research*. 2019;19(1):859.
31. Dort J, **Trickey AW**, Schwarz E, Paige J. Something for everyone: The benefits of longitudinal mentorship with the application of the acquisition of data for outcomes and procedure transfer (ADOPT) program to a SAGES Hands-on Colectomy course. *Surgical Endoscopy*. 2019;33(9):3062-3068.
32. Sheckter CC, Jopling J, Ding Q, **Trickey AW**, Wagner T, Morris A, Hawn M. Resident sensitive processes of care: the impact of surgical residents on inpatient testing. *Journal of the American College of Surgeons*. 2019;228(5):798-806.
33. Sceats LA, **Trickey AW**, Morris AM, Kin C, Staudenmayer KL. Nonoperative management of uncomplicated appendicitis among privately insured patients. *JAMA Surgery*. 2019;154(2):141-149.

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34. Sheckter CC, Li A, Pridgen B, **Trickey AW**, Karanas Y, Curtin C. The impact of skin allograft on inpatient outcomes in the treatment of major burns 20–50% total body surface area: a propensity score matched analysis using the nationwide inpatient sample. *Burns*. 2019;45(1):146-156.
35. Carden A, Blum K, Arbaugh CJ, **Trickey AW**, Eisenberg D. Low socioeconomic status is associated with lower weight-loss outcomes 10-years after Roux-en-Y gastric bypass. *Surgical Endoscopy*. 2019;33(2):454-459.
36. Harris AH, Kuo AC, Weng Y, **Trickey AW**, Bowe T, Giori NJ. Can machine learning methods produce accurate and easy-to-use prediction models of 30-day complications and mortality after knee or hip arthroplasty? *Clinical Orthopaedics & Related Research*. 2019;477(2):452-460.
37. Rothenberg KA, Stern JR, George EL, **Trickey AW**, Morris AM, Hall DE, Johanning JM, Hawn MT, Arya S. Association of frailty and postoperative complications on unplanned readmissions following elective outpatient surgery. *JAMA Network Open*, 2019;2(5):e194330.
38. Mittermiller PA, Bidwell SS, Thieringer FM, Cornelius CP, **Trickey AW**, Kontio R, Girod S, AO Trauma Classification Study Group. The comprehensive AO CMF classification system for mandibular fractures: a multicenter validation study. *Craniofacial Trauma & Reconstruction*. 2019;12(4):254-265.
39. Newcomb AB, Liu C, **Trickey AW**, Dort J. Tell me straight: Teaching residents to disclose adverse events in surgery. *Journal of Surgical Education*. 2018;75(6):e178-191.
40. O'Neil SW, Friesen MA, Stanger D, **Trickey AW**. Survivability of existing peripheral intravenous access following blood sampling in a pediatric population. *Journal of Pediatric Nursing*. 2018;41:90-95.
41. Park KT, Sceats L, Dehghan M, **Trickey AW**, Wren A, Wong JJ, Bensen R, Limketkai BN, Keyashian K, Kin C. Risk of postoperative surgical site infections after vedolizumab versus anti-tumor necrosis factor therapy: a propensity-score matching analysis in inflammatory bowel disease. *Alimentary Pharmacology & Therapeutics*. 2018;154(6):S364-S365.

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42. Newcomb AB, Liu C, **Trickey AW**, Lita E, Dort J. Patient perspectives of surgical residents' communication: do skills improve over time with a communication curriculum? *Journal of Surgical Education*. 2018;75(6):e142-e149.
43. Newcomb AB, **Trickey AW**, Lita E, Dort J. Evaluating surgical residents' patient-centered communication skills: Practical alternatives to the "Apprenticeship Model." *Journal of Surgical Education*. 2018;75(3):613-621.
44. Mook P, **Trickey AW**, Krakowski KE, Majors S, Theiss MA, Fant C, Friesen MA. Exploration of portal activation by patients in a healthcare system. *Computers, Informatics, Nursing*. 2018;36(1):18-26.
45. Copeland-Halperin L R, Stodghill J, Emery E, **Trickey AW**, Dort J. Clinical predictors of positive postoperative blood cultures. *Annals of Surgery*. 2018;267(2):297-302.
46. Dort J, **Trickey AW**, Paige J, Schwarz E, Cecil T, Coleman M, Dunkin B. All in: expansion of the Acquisition of Data for Outcomes and Procedure Transfer (ADOPT) Program to an entire SAGES Annual Meeting Hands-On Hernia course. *Surgical Endoscopy*, 2018;32:4491-4497.
47. **Trickey AW**, Newcomb A, Porrey M, Piscitani F, Wright J, Graling P, Dort J. Two-year experience implementing a curriculum to improve residents' patient-centered communication skills. *Journal of Surgical Education*. 2017;74(6):e124-e132.
48. **Trickey AW**, Wright J, Donovan, J, Reines HD, Dort JM, Prentice HA, Graling P, Moynihan J. Inter-rater reliability of hospital readmission evaluations for surgical patients. *American Journal of Medical Quality*. 2017;32(2):201-207.
49. Dort J, **Trickey AW**, Paige J, Schwarz E, Dunkin B. Hands-On 2.0: Improving transfer of training via the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES) Acquisition of Data for Outcomes and Procedure Transfer (ADOPT) Program. *Surgical Endoscopy*. 2017;31(8):3326-3332.
50. Reines HD, **Trickey AW**, Donovan J. Morbidity and mortality conference is not sufficient for surgical quality control: processes and outcomes of a successful attending physician peer review committee. *American Journal of Surgery*. 2017;214(5):780-785.
51. Rogers S, **Trickey AW**. Classification of traumatic brain injury severity using retrospective data. *Journal of Nursing Education and Practice*. 2017;7(11):23.

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52. Wood EB, Harrison G, **Trickey AW**, Friesen MA, Stinson S, Rovelli E, McReynolds S, Presgrave K. Evidence-based practice: video-discharge instructions in the pediatric emergency department. *Journal of Emergency Nursing*. 2017;43(4):316-321.
53. Joshi ART, **Trickey AW**, Jarman B, Kallies K, Josloff R, Dort J, Kothuru R. Resident operative experience at Independent Academic Medical Centers (IAMCs)—a comparison to the national cohort. *Journal of Surgical Education*. 2017;74(6):e88-e94.
54. Gaffney TA, Hatcher BJ, Milligan R, **Trickey AW**. Enhancing patient safety: factors influencing error recovery among medical-surgical nurses. *Online Journal of Issues in Nursing*. 2016;21(3):1.
55. Newcomb AB, **Trickey AW**, Porrey M, Wright J, Piscitani F, Graling P, Dort J. Talk the talk: implementing a communication curriculum for surgical residents. *Journal of Surgical Education*. 2017;74:319-328.
56. **Trickey AW**, Newcomb AB, Porrey M, Wright J, Bayless J, Piscitani F, Graling P, Dort J. Assessment of surgery residents' interpersonal communication skills: validation evidence for the Communication Assessment Tool in a simulation environment. *Journal of Surgical Education*. 2016;73(6):e19-e27.
57. Joshi ART, **Trickey AW**, Kallies K, Jarman B, Dort J, Sidwell R. Characteristics of independent academic medical center faculty. *Journal of Surgical Education*. 2016;73(6):e48-e53.
58. Dort JM, **Trickey AW**, Kallies KJ, Joshi ART, Sidwell RA, Jarman BT. Applicant characteristics associated with selection for ranking at independent surgery residency programs. *Journal of Surgical Education*. 2015;72(6):e123-e129.
59. Jarman BT, Joshi ART, **Trickey AW**, Dort JM, Kallies KJ, Sidwell RA. Factors and influences that determine the choices of surgery residency applicants. *Journal of Surgical Education*. 2015;72(6):e163-e171.
60. Michetti CP, Franco E, Coleman J, Bradford A, **Trickey AW**. Deep vein thrombosis screening and risk factors in a high risk trauma population. *Journal of Surgical Research*. 2015;199(2):545-551.

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61. Rogers S, Richards KC, Davidson M, Weinstein AA, **Trickey AW**. Description of the moderate brain injured patient and predictors of discharge to rehabilitation. *Archives of Physical Medicine and Rehabilitation*. 2015;96(2):276-282.
62. Michetti CP, Griffen M, Tran HT, Crosby ME, **Trickey AW**. Laparoscopic cholecystectomy performed by acute care surgeons and general surgeons. *The American Surgeon*. 2015;81(5):e220-e221.
63. **Trickey AW**, Crosby ME, Singh M, Dort JM. An evidence-based medicine curriculum improves general surgery residents' standardized test scores in research and statistics. *Journal of Graduate Medical Education*. 2014;6(4):664-668.
64. **Trickey AW**, Crosby ME, Vasaly F, Donovan J, Moynihan J, Reines HD. Using NSQIP to investigate SCIP deficiencies in surgical patients with a high risk of developing hospital-associated urinary tract infections. *American Journal of Medical Quality*. 2014;29(5):381-387.
65. Hwang V, **Trickey AW**, Lormel C, Bradford AN, Griffen MM, Lawrence CP, Sturek C, Stacey E, Howell JM. Are pediatric concussion patients compliant with discharge instructions? *Journal of Trauma and Acute Care Surgery*. 2014;77(1):117-122.
66. Otchy DP, Crosby ME, **Trickey AW**. Colectomy without mechanical bowel preparation in the private practice setting. *Techniques in Coloproctology*. 2014;18:45-51.
67. Purvis D, Crutchfield K, **Trickey AW**, Aldaghlis T, Rizzo A, Sikdar S. Transcranial Doppler investigation of hemodynamic alterations associated with blunt cervical vascular injuries in trauma patients. *Journal of Ultrasound in Medicine*. 2013;32:1759-1768.
68. **Trickey AW**, Fox EF, del Junco DJ, Ning J, Holcomb JB, Brasel KJ, et al. The impact of missing trauma data on predicting massive transfusion. *Journal of Trauma and Acute Care Surgery*. 2013;75(S1):S68-S74.
69. Broughan TA, Crosby ME, **Trickey AW**, Ma A, Bratzler DW. Implications of Medicare procedure volumes on resident education. *American Journal of Surgery*. 2013;205:737-744.
70. Purvis D, Aldaghlis T, **Trickey AW**, Rizzo A, Sikdar S. A novel decision tree approach based on transcranial Doppler sonography to screen for blunt cervical vascular injuries. *Journal of Ultrasound in Medicine*. 2013;32:1023-1031.

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71. Hwang KO, Ning J, **Trickey AW**, Sciamanna CN. Website usage and weight loss in a free commercial online weight loss program. *Journal of Medical Internet Research*. 2013;15(1):e11.
72. **Trickey AW**, Arnold CC, Parmar A, Lasky RE. Sound levels, staff perceptions, and patient outcomes during renovation near the neonatal intensive care unit. *Health Environments Research & Design Journal*. 2012;5(4):76-87.
73. Katakam LI, **Trickey AW**, Thomas EJ. Speaking up and sharing information improves trainee neonatal resuscitations. *Journal of Patient Safety*. 2012;8(4):202-209.
74. Adra SW, **Trickey AW**, Crosby ME, Kurtzman SH, Friedell ML, Reines HD. General surgery vs fellowship: the role of the Independent Academic Medical Center. *Journal of Surgical Education*. 2012;69:740-745.
75. Hwang KO, **Trickey AW**, Graham AL, Thomas EJ, Street RL, Kraschnewski JL. Acceptability of narratives to promote colorectal cancer screening in an online community. *Preventive Medicine*. 2012;54(6):405-407.
76. **Williams AL**, Lasky RE, Dannemiller JL, Andrei A, Thomas EJ. Teamwork behaviours and errors during neonatal resuscitation. *Quality and Safety in Health Care*. 2010;19:60-64.
77. Thomas EJ, **Williams AL**, Reichman EF, Lasky RE, Crandell S, Taggart WR. Team training in the Neonatal Resuscitation Program for interns: teamwork and quality of resuscitations. *Pediatrics*. 2010;125:539-546.
78. **Williams AL**, Khattak AZ, Garza CN, Lasky RE. The behavioral pain response to heelstick in preterm neonates studied longitudinally: description, development, determinants, and components. *Early Human Development*. 2009;85:369-374.
79. **Williams AL**, Sanderson M, Lai D, Selwyn BJ, Lasky RE. Intensive care noise and mean arterial blood pressure in extremely low-birth-weight neonates. *American Journal of Perinatology*. 2009;26:323-330.
80. Padhye NS, **Williams AL**, Khattak AZ, Lasky RE. Heart rate variability in response to pain stimulus in VLBW infants followed longitudinally during NICU stay. *Developmental Psychobiology*. 2009;51(8):638-649.

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81. Abou Turk CA, **Williams AL**, Lasky RE. A randomized clinical trial evaluating silicone earplugs for very low birth weight newborns in intensive care. *Journal of Perinatology*. 2009;29(5):358-363.
82. Lasky RE, Parikh NA, **Williams AL**, Padhye NS, Shankaran S. Changes in the PQRST intervals and heart rate variability associated with rewarming in two newborns undergoing hypothermia therapy. *Neonatology*. 2009;96:93-95.
83. Lasky RE, **Williams AL**. Noise and light exposures for extremely low birth weight newborns during their stay in the neonatal intensive care unit. *Pediatrics*. 2009;123(2):540-546.
84. Van Drongelen W, **Williams AL**, Lasky RE. Spectral analysis of time series of events: effect of respiration on heart rate in neonates. *Physiological Measurement*. 2009;30:43-61.
85. Mietzsch U, Parikh NA, **Williams AL**, Shankaran S, Lasky RE. Effects of hypoxic-ischemic encephalopathy and whole-body hypothermia on neonatal auditory function: a pilot study. *American Journal of Perinatology*. 2008;25(7):435-441.
86. Thomas EJ, Taggart B, Crandell S, Lasky RE, **Williams AL**, Love LJ, Sexton JB, Tyson JE, Helmreich RL. Teaching teamwork during the neonatal resuscitation program: a randomized trial. *Journal of Perinatology*. 2007;27:409-414.
87. **Williams AL**, Van Drongelen W, Lasky RE. Noise in contemporary neonatal intensive care. *Journal of the Acoustical Society of America*. 2007;121(5):2681-2690.
88. Khattak AZ, Padhye NS, **Williams AL**, Lasky RE, Moya FR, Verklan MT. Longitudinal assessment of heart rate variability in very low birth weight infants during their NICU stay. *Early Human Development*. 2007;83:361-366.

INVITED PUBLICATIONS

1. **Trickey AW**, Harris AHS. Reply to the Letter to the Editor: How Accurate Are the Surgical Risk Preoperative Assessment System (SURPAS) Universal Calculators in Total Joint Arthroplasty? *Clinical Orthopaedics & Related Research*, in press.

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2. Lasky RE, **Williams AL**. The development of the auditory system from conception to term. *NeoReviews*. 2005;6(3):e141-e152.

ACADEMIC PUBLICATIONS

1. Doctoral Dissertation: Data quality in trauma transfusion studies and the impact of missing data on predicting massive transfusion. Advisor: M. Hossein Rahbar, PhD, University of Texas School of Public Health, Epidemiology. Completed November 2012.
2. Master's Thesis: Intensive care noise and mean arterial blood pressure in ELBW neonates. Advisor: Maureen Sanderson, PhD, University of Texas School of Public Health, Epidemiology. Completed January 2008.
3. Undergraduate Thesis: A device to evaluate the mechanical properties of biological tissues in tension. Advisor: J-K Francis Suh, PhD, Tulane University, Biomedical Engineering. Completed January 2003.

ORAL PRESENTATIONS

1. **Trickey AW**. Research Design and Statistics. Stanford Medicine, Department of Surgery Resident Professional Development Boot Camp. July 22, 2020; Stanford, CA.
2. **Trickey AW**. How to Work with a Biostatistician for Power and Sample Size Calculations. Stanford Medicine, Department of Surgery Resident Professional Development Boot Camp. October 2, 2019; Stanford, CA.
3. **Trickey AW**, Kin C, Morris A, Chou L, Safer D, Ding Q, Girod S. Factors Associated with Chronic Opioid Use after Treatment of Common Pain Syndromes: A Private Insurance Claims Analysis. AcademyHealth Annual Research Meeting, June 2, 2019; Washington, DC.
4. **Trickey AW**, Kin C, Morris A, Chou L, Safer D, Ding Q, Girod S. Factors Associated with Chronic Opioid Use after Treatment of Common Pain Syndromes: A Private Insurance Claims Analysis. AcademyHealth Annual Research Meeting Surgical and Perioperative Interest Group, June 1, 2019; Washington, DC.

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5. **Trickey AW**, Ding Q, Sox-Harris A. Universal SURPAS Surgical Risk Calculators Have Poor Accuracy for Total Joint Replacement Procedures. 14th Annual Academic Surgical Congress, February 5, 2019; Houston, TX.
6. **Trickey AW**. Introduction to Causal Directed Acyclic Graphs. Stanford-Surgery Policy Improvement Research and Education Center Work-in-Progress, January 28, 2019; Stanford, CA.
7. **Trickey AW**. Research Design and Statistics. Stanford Medicine, Department of Surgery Resident Professional Development Boot Camp, September 26, 2018; Stanford, CA.
8. **Trickey AW**. Estimating Power and Sample Size. Stanford-Surgery Policy Improvement Research and Education Center Work-in-Progress, June 4, 2018; Stanford, CA.
9. **Trickey AW**. Quantitative Methods. Stanford-Surgery Policy Improvement Research and Education Center Mixed Methods Research Workshop, March 15, 2018; Stanford, CA.
10. **Trickey AW**. Research Design and Statistics. Stanford Medicine, Department of Surgery Resident Professional Development Boot Camp, July 26, 2017; Stanford, CA.
11. **Trickey AW**, Newcomb A, Porrey M, Piscitani F, Wright J, Graling P, Dort J. Resident Interpersonal Communication Skills: Follow-up Assessment Using a Communication Tool in Simulation. Association of Program Directors in Surgery Annual Meeting, April 19, 2017; San Diego, CA.
12. Newcomb A, **Trickey AW**, Dort J. Evaluating Surgical Residents' Patient-Centered Communication Skills. Workshop presentation at the Association of Program Directors in Surgery Annual Meeting, April 19, 2017; San Diego, CA.
13. **Trickey AW**, Majors S. Exploration of Portal Utilization by Patients in a Healthcare System. Inova Nursing Research and Evidence-Based Practice Symposium, November 14, 2016; Falls Church, VA.
14. **Trickey AW**. Working Effectively with Epidemiologists. Summer Medical Student Lecture Series. Virginia Commonwealth University School of Medicine M2 students, Inova Health System Campus, June 23, 2016; Falls Church, VA.

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15. **Trickey AW**, Holtzman J, Dort JM. Advanced Surgical Technology and Education Center: A Mentorship Journey. Thomas Jefferson High School for Science and Technology Symposium to Advance Research, June 2, 2016; Alexandria, VA.
16. **Trickey AW**, Newcomb AB, Bayless J, Porrey M, Wright J, Piscitani FD, Graling P, Dort JM. Assessment of Resident Interpersonal Communication Skills: Validation of a Communication Tool in a Simulation Environment. Association of Program Directors in Surgery Annual Meeting, April 14, 2016; Boston, MA.
17. **Trickey AW**, Newcomb AB, Dort J. Implementing a Communication Curriculum for Surgical Residents. Workshop presentation at the Association of Program Directors in Surgery Annual Meeting, April 15, 2016; Boston, MA.
18. Mathis R, **Trickey AW**, Dort J. Assessment of Resident Laparoscopic Skills and Effect of Structured Simulations. Workshop presentation at the Association of Program Directors in Surgery Annual Meeting, April 15, 2016; Boston, MA.
19. **Trickey AW**, Newcomb AB, Wright J, Piscitani FD, Dort J, Bachman S, Porrey M, Bayless J, Graling P. Patient-centered communication for surgical residents: a simulation-based curriculum. American College of Surgeons Accredited Education Institutes Consortium Annual Meeting, March 8, 2016; Chicago, IL.
20. **Trickey AW**. Statistical Analysis. Evidence-Based Medicine Lecture Series. Virginia Commonwealth University School of Medicine M3 students, Inova Health System Campus, December 14, 2015; Falls Church, VA.
21. Wright J, **Trickey AW**, Prentice HA. The nuts and bolts of meeting your academic productivity requirement. Inova Fairfax Hospital, Surgery Grand Rounds, October 21, 2015; Falls Church, VA.
22. **Trickey AW**, Wright J, Donovan J, Reines HD, Dort J, Prentice HA, Graling P, Moynihan J. ACS NSQIP more accurately reflects clinical reasons for hospital readmission than administrative claims data. National Surgical Quality Improvement Program Annual Conference, July 26, 2015; Chicago, IL.
23. Piscitani F, **Trickey AW**, Dort J, Bachman S, Graling P, Esteban C. The Advanced Surgical Technology and Education Center – A Cut Above. Thomas Jefferson High School for Science and Technology Symposium to Advance Research, June 6, 2015; Alexandria, VA.

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24. **Trickey AW**, Wright J, Donovan J, Reines HD, Dort J, Prentice HA, Graling P, Moynihan J. Causes of surgical readmissions are more clinically accurate in ACS NSQIP than administrative claims data. Virginia Chapter, American College of Surgeons and Virginia Surgical Society meeting, May 3, 2015; Richmond, VA.
25. **Trickey AW**. Quality Improvement Methods. Virginia Commonwealth University School of Medicine Surgery Rotation, Inova Health System Campus, April 8, 2015; Falls Church, VA.
26. **Trickey AW**. Evidence-Based Practice. George Mason University, Introduction to Kinesiology (KINE 100-001), September 30, 2013; Fairfax, VA.
27. **Trickey AW**. Much Ado About Nothing: Missing Data in Clinical Research. Inova Fairfax Hospital, Surgery Grand Rounds, September 18, 2013; Falls Church, VA.
28. **Trickey AW**, Crosby ME, Singh M, Dort JM. A research and statistics curriculum improves general surgery residents' scores on the American Board of Surgery In-Training Examination (ABSITE). Virginia Chapter, American College of Surgeons and Virginia Surgical Society meeting, May 5, 2013; Virginia Beach, VA.
29. Graling P, **Trickey AW**, Dort JM, Moynihan JJ, Clougherty P. An interprofessional approach to improving patient safety at Inova. Inova Fairfax Hospital, Combined Surgical, Anesthesia, and Nursing Grand Rounds, April 17, 2013; Falls Church, VA.
30. **Trickey AW**, Fox EF, del Junco DJ, Ning J, Holcomb JB, Brasel KJ, et al. Missing data in two multi-center transfusion studies: comparison of retrospective and prospective data collection. PROspective Observational Multi-center Major Trauma Transfusion (PROMMTT) study Symposium; September 11, 2012; Kauai, HI.
31. **Trickey AW**, Fox EF, del Junco DJ, Ning J, Holcomb JB, Brasel KJ, et al. A systematic approach to assess the impact of missing data on predictive massive transfusion algorithms. PROspective Observational Multi-center Major Trauma Transfusion (PROMMTT) study Symposium; September 11, 2012; Kauai, HI.
32. **Trickey AW**. Interpreting Meta-Analyses. Inova Fairfax Hospital, Surgery Grand Rounds, November 2, 2011; Falls Church, VA.

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33. **Trickey AW**. Surgical Resident Research Forum. Inova Fairfax Hospital, General Surgery Residency Program. Falls Church, VA. Quarterly (August 2011–October 2013; October 2015–June 2016). Included Virginia Commonwealth University Medical Students.

POSTER PRESENTATIONS

1. **Trickey AW**, Meng T, Govindarajan P. Intravenous Alteplase Use and Ambulance Transport Among Medicare Stroke Patients. AcademyHealth Virtual Annual Research Meeting, July 28, 2020.
2. **Trickey AW**, Ding Q, Sox-Harris AS. Evaluating Accuracy of the Surgical Risk Preoperative Assessment System Universal Calculators for Elective Total Joint Replacement. AcademyHealth Annual Research Meeting, June 2, 2019; Washington, DC.
3. Mudumbai SC, Pershing S, Kamal R, Sears E, Finlay AK, Hawn M, Weng Y, **Trickey AW**, Mariano ER, Harris A HS. Prediction and Imputation of ASA Physical Status Classification Scores. American Society of Anesthesiologists Annual Meeting, October 13, 2018; San Francisco, CA.
4. Harris AH, Weng Y, **Trickey AW**, Kuo A, Giori N. Developing prediction models for complications following elective total joint arthroplasty using NSQIP data. AcademyHealth Annual Research Meeting, June 25, 2018; Seattle, WA.
5. Newcomb AB, Liu C, **Trickey AW**, Lita E, Dort J. Patient Perspectives of Surgical Residents' Communication: Do Skills Improve Over Time? Association of Program Directors in Surgery Annual Meeting, May 4, 2018; Austin, TX.
6. Marko E, Murphy C, Edmiston K, Stacks H, Graling P, Veal C, **Trickey AW**, Semiao M, Cheifetz C. Simulation Adds Value to TeamSTEPPS Education. International Meeting on Simulation in Healthcare, January 13, 2018; Los Angeles, CA.
7. Newcomb AB, **Trickey AW**, Dort J, Graling P, Piscitani F, Mohess D. Integrating Patients in Patient-Centered Communication Training for Surgical Residents: A Simulation-Based Curriculum. International Conference on Communication in Healthcare, October 8, 2017; Baltimore, MD.

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8. Marko E, Stacks H, Graling P, Edmiston K, Murphy C, Veal C, **Trickey AW**, Semiao M. Effectiveness of TeamSTEPPS Instructional Methods using Simulation. TeamSTEPPS National Conference, June 14, 2017; Cleveland, OH.
9. O'Neil S, Gutierrez A, Kravatz P, Perry J, Symons C, Friesen MA, Stanger D, **Trickey AW**. Survivability of Existing Peripheral Intravenous Access Following Blood Sampling in a Pediatric Population. Reston Hospital Center and Marymount University Sigma Theta Tau Chapter 13th Annual Nursing Research Conference, May 24, 2017; Reston, VA.
10. Wood E, Harrison G, McReynolds SP, Presgrave KF, Rovelli E, Stinson SE, **Trickey AW**, McCabe B. Practice Improvement: Spanish Language Video Discharge Instructions in the Pediatric Emergency Department. Reston Hospital Center and Marymount University Sigma Theta Tau Chapter 13th Annual Nursing Research Conference, May 24, 2017; Reston, VA.
11. Mathis R, **Trickey AW**, Emery E, Dort J. Assessment of Resident Laparoscopic Skills and Effect of Structured Simulations. Association of Program Directors in Surgery Annual Meeting, April 18, 2017; San Diego, CA.
12. Bachman S, **Trickey AW**, Marko E, Dort J. Strength in Numbers: A Joint Surgical-Specialty Boot Camp. Association of Program Directors in Surgery Annual Meeting, April 18, 2017; San Diego, CA.
13. Freedy A, Fleming A, **Trickey AW**, Newcomb A, Smith S, Koestler J. The COMSEP Mentoring Pilot: Initial Results and Next Steps Council on Medical Student Education in Pediatrics Annual Meeting, March 29, 2017; Portland, OR.
14. Mathis R, **Trickey AW**, Emery E, Hafner G, Dort J. Assessment of resident laparoscopic skills: operating room autonomy and simulator performance. Society of American Gastrointestinal and Endoscopic Surgeons Annual Meeting, March 22, 2017; Houston, TX.
15. **Trickey AW**, Graling P, Piscitani F, Surbey W, Walker L, Dort J, Wu P. Operating Room Crisis Checklists: Development of Simulation Training. Annual American College of Surgeons Simulation Conference, March 17, 2017; Chicago, IL.
16. Wills E, LaPorta MW, Graling P, **Trickey AW**, Fila M, Colvin D. Early Mobilization in the PACU Following Colorectal Surgery. Virginia Patient Safety Summit, February 2, 2017; Richmond, VA.

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17. Newcomb AB, Opitz J, **Trickey AW**, Dort J. Patients as Communication Educators with Residents. Institute for Healthcare Improvement 28th Annual National Forum on Quality Improvement in Health Care, December 6, 2016; Orlando, FL.
18. Wood E, Harrison G, McReynolds SP, Rovelli E, Stinson SE, Nassr L, Presgrave KF, Charles E, **Trickey AW**, McCabe B. Effectiveness of Video Discharge Instructions in the Pediatric Emergency Department: A Nurse-led Evidence-Based Practice Project. Annual Meeting of the Emergency Nursing Association, September 16, 2016; Los Angeles, CA.
19. Federowicz T, **Trickey AW**, Emery E, Dort J, Mukherjee D. Losing Exposure: Diminishing Revascularization Experience in General Surgery Residency. Annual Meeting of the Eastern Vascular Society, September 15, 2016; Philadelphia, PA.
20. Mathis R, Hafner G, Prentice H, Wright J, **Trickey AW**, Emery E, Dort J. Assessment of Resident Laparoscopic Skills and Effect of Structured Simulations. Association of Program Directors in Surgery Annual Meeting, April 15, 2016; Boston, MA.
21. Graling P, Wright J, Prentice HA, **Trickey AW**, Jones E, Seifert P, Graham K, Dort J. Inter-professional Education and Simulation to Improve Knowledge Retention of CAUTI. American College of Surgeons Accredited Education Institutes Consortium Annual Meeting, March 7, 2016; Chicago, IL.
22. Battista AL, Lewis B, Piscitani F, Graling P, **Trickey AW**, Bannan B. Development and proof of concept for ecosystem for smart medical simulation team training. International Meeting on Simulation in Healthcare, January 17, 2016; San Diego, CA.
23. Harrison G, Wood EB, McReynolds S, Nassr L, Presgrave K, Rovelli E, Stinson S, **Trickey AW**, Charles E, McCabe J. Effectiveness of Video Discharge Instructions in the Pediatric Emergency Department: A Nurse-Led Evidence Based Practice Project. Virginia Nurses Association Fall Conference, September 23, 2015; Richmond, VA.
24. **Trickey AW**, Wright J, Donovan J, Reines HD, Dort J, Prentice HA, Graling P, Moynihan J. ACS NSQIP more accurately reflects clinical reasons for hospital readmission than administrative claims data. National Surgical Quality Improvement Program Annual Conference, July 26, 2015; Chicago, IL.

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25. Dort JM, **Trickey AW**, Kallies KJ, Joshi ART, Sidwell RA, Jarman BT. Applicant characteristics associated with selection for ranking at independent surgery residency programs. Association of Program Directors in Surgery meeting, April 23, 2015; Seattle, WA.
26. Graling P, **Trickey AW**, Wright J, Gallimore H, Vasaly F, Crosby M, Dort J. Refining utilization of the WHO checklist to improve safety and efficiency in surgery and optimize communication in the operating room. Virginia Patient Safety Summit, January 30, 2015; Richmond, VA.
27. Graling P, **Trickey AW**, Wright J, Gallimore H, Vasaly F, Crosby M, Dort J. Refining utilization of the WHO checklist to improve safety and efficiency in surgery and optimize communication in the operating room. Inova Health System 2014 Nursing Research Symposium: Improving Patient Outcomes through Quality Improvement, Evidence-Based Practice and Research, December 5, 2014; Falls Church, VA.
28. Schwartzbach CC, Whitfield B, **Trickey AW**, Ramsey L. Degree of Joint Depression Predicts Meniscal Tear in Lateral Tibial Plateau Fractures. Southern Orthopedics Association Annual Meeting, July 17, 2014; Beaver Creek, CO.
29. Michetti CP, Franco E, Lormel C, Coleman J, Bradford A, **Trickey AW**. Deep vein thrombosis screening and risk factors in a high risk trauma population. American College of Surgeons Clinical Congress, October 7, 2013; Washington, DC.
30. Reines HD, **Trickey AW**, Crosby ME, Vasaly F, Donovan J, Moynihan J. Using NSQIP to investigate SCIP deficiencies in surgical patients with a high risk of developing hospital-associated urinary tract infections. National Surgical Quality Improvement Program National Conference, July 15, 2013; San Diego, CA.
31. Kfoury E, Dort J, **Trickey AW**, Crosby M, Mukherjee D. Carotid Endarterectomy under Local Anesthesia Has Less Risk of Myocardial Infarction Compared to General Anesthesia: An Analysis of National Surgical Quality Improvement Program Database. Society for Vascular Surgery Annual Meeting, May 31, 2013; San Francisco, CA.
32. Katakam LI, **Trickey AW**, Thomas EJ. Team training during the Neonatal Resuscitation Program certification: Two years after the randomized controlled trial. Pediatric Academic Societies' Annual Meeting, May 4, 2013; Washington, DC.

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33. Reines HD, **Trickey AW**, Crosby ME, Vasaly F, Donovan J, Moynihan J. Using NSQIP to investigate SCIP deficiencies in surgical patients with a high risk of developing hospital-associated urinary tract infections. American College of Surgeons Clinical Congress, October 1, 2012; Chicago, IL.
34. Otchy DP, Crosby ME, **Trickey AW**. Colectomy without mechanical bowel preparation in private practice. American Society of Colon and Rectal Surgeons Annual Meeting, June 2, 2012; San Antonio, TX.
35. Arnold CC, Algotar A, Lally PA, Montgomery CE, **Trickey AW**. Parenteral nutrition for VLBW patients: Can we do better? Pediatric Academic Society Annual Meeting, April 28, 2012; Boston, MA.
36. **Trickey AW**, Wang W, Hwang KO. Magnitude and predictors of weight loss in a free ad libitum online weight loss program. Texas Obesity Research Center Conference; November 18, 2010; Houston, TX.
37. Hwang KO, **Trickey AW**, Graham AL, Street RL, Vernon SW. Promoting colorectal cancer screening in an Internet weight loss community: Assessment of needs and capacity. Cancer Prevention and Research Institute of Texas Innovations in Cancer Prevention and Research Conference; November 18, 2010; Austin, TX.
38. Hwang KO, **Trickey AW**, Graham AL, Thomas EJ, Street RL, Vernon SW. Feasibility and acceptability of promoting colorectal cancer screening in an Internet weight loss community through narratives and navigational guidance. American Association for Cancer Research Annual Cancer Prevention Conference; November 9, 2010; Philadelphia, PA.

ONGOING RESEARCH SUPPORT

National Institutes of Health, Pugh (PI), 10/01/20-09/30/24
R01 DK123445

Superior Error Management Strategies: Quantifying the Metrics of Surgical Mastery
This study uses 'Quantification of Surgical Mastery' as a framework for data analysis to generate: 1) a roadmap for predicting surgical mastery in the OR using motion and video data and 2) a roadmap outlining the technical challenges of developing a successful, value-added decision aid. The long-term goal of this proposal aims to change measurement culture in healthcare and establish a framework for adopting continuous data collection.

Role: Statistician

Amber W. Trickey, PhD, MS, CPH

National Institutes of Health, Dalman, Lu, Mahaffey (co-PIs), 07/01/20-06/30/25

1 R61HL146835

LIMItIng AAA with MeTformin (LIMIT)

The LIMIT trial aims to test the ability of metformin XR (extended release) to reduce the rate of enlargement of existing small to intermediate size abdominal aortic aneurysms (AAA) and assess the safety and tolerance of daily metformin XR/Glucophage SR therapy in non-diabetic AAA patients.

Role: Data Manager

Agency for Healthcare Research & Quality, Govindarajan (PI), 07/01/19 – 06/30/24

1R01HS026207-01

Effect of bypass policies on stroke treatment in a national sample of Medicare beneficiaries

The purpose of this research is to assess changes in stroke care and patient outcomes following state- and county-level implementation of emergency response stroke bypass protocols.

Role: Statistician

VA Intergovernmental Personnel Act Agreement, Wagner (PI), 05/01/20-4/30/21

VA Palo Alto Health Care System

While on assignment Dr. Trickey will assist with the statistical analysis of the VA National Telestroke Program (NTSP) using her expertise in stroke evaluations and multivariate time series models for stroke outcomes.

Role: Statistician

Department of Defense, Krams, Martinez (Multi-PI), 06/01/20-05/31/22

RT190051

Identification and Therapeutic Targeting of a Novel Cell Population in Rejection of Vascularized Composite Allotransplantation

The goal of this study is to achieve a high dimensional characterization of myeloid and T cell populations in vascularized composite allotransplantation and to target myeloid subsets to prolong graft survival.

Role: Statistician

Department of Defense, Krams (PI), 06/01/20-05/31/22

RT190041

Exosomes as a Reliable Non-invasive Method for Monitoring VCA Graft Rejection

The goals are to determine the contribution of exosomes to VCA rejection, to identify the cargo of host derived exosomes and to modulate exosomes to prolong VCA.

Role: Statistician

Amber W. Trickey, PhD, MS, CPH

COMPLETED RESEARCH SUPPORT

National Institutes of Health, Krams (PI), 12/01/17-11/30/20

1 U01AI35950-01

Exosomes and the Immune Response in Allograft Outcomes in Pediatric Transplant Recipients

The major goals proposed in this study are to determine the impact of an allograft on the early post-transplant immune response; establish novel diagnostic and predictive approaches to determine allograft status.

Role: Statistician

National Institutes of Health, Martinez (PI), 12/01/17-11/30/20

1 U01AI35947-01

The Impact of Epstein Barr Virus Infection on the Immune Response in Pediatric Transplant Recipients

The proposed goals of this proposal are to define natural killer (NK) cell signatures associated with viral infection, and assess the prevalence and complete phenotype of NKG2A+ NK cells in EBV-infected transplant recipients; identify the T cell receptor (TCR) and effector cell signature of functional EBV-specific T cells; determine whether patients who have recovered from PTLD have increased proportions of B regulatory cells and elevated IL-10 in the circulation.

Role: Statistician

Inova GMU Collaborative Grant, Sikdar (PI), 2011 – 2016

Inova Health System—George Mason University Collaboration

Novel methods for sonographic evaluation of blunt cervical vascular injuries

The goal of this project is to explore the feasibility of a bedside assessment of blunt cervical vascular injuries with transcranial Doppler ultrasound and new Doppler vibrometry methods.

Role: Statistician

Inova Health System Evidence-Based Practice, Harrison (PI), 2015

Effectiveness of Video Discharge Instructions in the Pediatric Emergency Department:

A Nurse-led Evidence Based Practice Project

The purpose of this study was to determine if providing video discharge instructions, versus written and verbal instructions alone, improves caregiver knowledge about the child's diagnosis, treatment, illness duration and when to seek further medical care.

Role: Statistician

Amber W. Trickey, PhD, MS, CPH

Inova Health System Seed Grant, Trickey (PI), 2013 – 2014

\$12,500

Comparing validity of surgical readmission information: Which readmissions are preventable?

The goals of this study were to evaluate surgical readmission information in the National Surgical Quality Improvement Program database and validate reasons for readmission compared to administrative billing data and clinical record review.

Role: Co-PI