

**CURRICULUM VITAE  
OREGON HEALTH & SCIENCE UNIVERSITY**

**NAME**

Vahagn C. Nikolian, MD

**DATE**

6/2022

**PRESENT POSITION AND ADDRESS**

**Academic Rank:**

Assistant Professor

**Department/Division:**

Division of Gastrointestinal and General Surgery

**Professional Address:**

Oregon Health & Science University  
3181 SW Sam Jackson Park Road, L223A  
Portland, OR 97239

**E-Mail Address:**

nikolian@ohsu.edu

**II. EDUCATION**

**Undergraduate and Graduate:**

2007            B.A. Biological Science; B.A. Economics  
                  University of Southern California  
                  Los Angeles, CA

**Postgraduate:**

Medical School/ Doctoral:

2012            Doctor of Medicine (MD)  
                  Keck School of Medicine  
                  University of Southern California  
                  Los Angeles, CA

Internship & Residency:

2012-2019     Internship & Residency, General Surgery  
                  University of Michigan  
                  Ann Arbor, MI

Fellowship:

2008-2009     Research Fellow  
                  Children's Hospital of Los Angeles  
                  Los Angeles, CA

2015-2017     Research Fellow  
                  University of Michigan  
                  Ann Arbor, MI

2019-2020     Advanced Abdominal Wall Surgery  
                  Columbia University Medical Center  
                  New York, NY

## **Certifications**

American Board of Surgery  
General Surgery  
Certificate Number: 65629  
December 10, 2019

## **Licenses:**

DEA Registration  
Active  
Certification Number and Date Issues Available on Request

State of Oregon  
Active  
License Number: MD198614

## **III. PROFESSIONAL EXPERIENCE**

### **Academic:**

2020-Present Assistant Professor of Surgery  
Division of Gastrointestinal and General Surgery  
Oregon Health & Science University  
Portland, Oregon

2021-Present Co-Core Surgical Clerkship Director (10% FTE)  
Office of Undergraduate Medical Education  
Oregon Health & Science University  
Portland, Oregon

2022-Present Director of Research and Education (5% FTE)  
Hernia and Abdominal Wall Center  
Oregon Health & Science University  
Portland, Oregon

## **IV. SCHOLARSHIP**

### **Area(s) of Research/Scholarly Interest:**

- Utilization of telemedicine-based care to improve access to care
- Outcomes in abdominal wall reconstruction and hernia surgery
- Use of digital platforms to enhance trainee education

### **Grants and Contracts:**

#### **National (Include Title, Source, PI, Amount Period, and % Effort)**

##### **Completed:**

Title: Testing of Novel Pro-Survival Strategies in the Setting of Prolonged Damage Control Resuscitation.  
Sponsor: Department of Defense Combat Casualty Care Prolonged Field Care Research Award.  
Role: Co-Investigator  
Principal Investigator: Hasan B. Alam, MD  
Amount: \$3,000,000  
Percent effort: NA  
Timeframe: 2017-2020

**State and Local (Include Title, Source, PI, Amount Period, and % Effort)**

**Completed:**

Title: Identification of Pharmacodynamic Biomarkers for Optimizing TBI Treatment Studies.  
Sponsor: Massey Foundation Severe Traumatic Brain Injury Grand Challenge  
Role: Co-Investigator  
Principal Investigator: Hasan B. Alam, MD  
Amount: \$120,000  
Percent effort: NA  
Timeframe: 2017-2018

Title: Evaluation of isoform selective histone deacetylase inhibition for the treatment of traumatic injuries.  
Sponsor: The Frederick A. Collier Surgical Society Research Foundation Award.  
Role: Principal Investigator  
Amount: \$25,000  
Percent effort: NA  
Timeframe: 2016-2017.

Title: Using advanced genomic and proteomic technology to ensure valproic acid's success as an early treatment of traumatic brain injury.  
Sponsor: Massey Foundation Severe Traumatic Brain Injury Grand Challenge  
Role: Co-Investigator  
Principal Investigator: Hasan B. Alam, MD  
Amount: \$92,000  
Percent effort: NA  
Timeframe: 2016-2017

Title: Augmented Reality Technology to Enhance Medical Student Training on Surgical Rotations  
Sponsor: Invent Oregon Competition  
Role: Principal Investigator  
Mentees: Ashraf Samhan, BS; Stephanie MacDonald, BS  
Amount: \$2,500  
Percent effort: NA  
Timeframe: 2021

**Honors and Awards**

- Journal of American College of Surgeon Award Winning Continuing Medical Education Program 2022
- Best Basic Science Paper, Region V, ACS Committee on Trauma Papers Competition 2018
- Best Basic Science Paper, Michigan Chapter, ACS Committee on Trauma Papers Competition 2017
- Western Trauma Association Earl Young Resident Research Competition Finalist 2017
- ACS Excellence in Basic Science Research Award 2016
- Outstanding Poster Award, Massey Regional Traumatic Brain Injury Conference 2015
- Medical Student Research Award, Western Vascular Society Meeting 2012
- Medical Student Summer Research Award, Keck School of Medicine 2007

## Publications/Creative Work:

### Publication metrics

Date of review: 5/18/22

Citation Metrics			
Source	Citations	h-index	i-10 index
Google Scholar	1270	22	39
Scopus	804	17	n/a
NIH ICite Metrics			
Total publications	Pubs/year	Citations/year (mean)	Relative Citation Ratio (mean)
58	4.46	4.26	2.06

Peer-reviewed (\* denotes mentee)

1. (*submitted*) Surgeon Perspectives of the STITCH Trial: A Mixed Methods Study. Cochrun SL\*, Herbey I, Ivankova N, **Nikolian VC**, Jansen JO, Parmar AD.
2. (*submitted*) Bedside vs Webside: Assessing Patient-Reported Experience for In-Person and Telemedicine-based Perioperative Evaluations. O'Connor A\*, Shettig A\*, Santucci NM\*, Sutton TL\*, Bray JO\*, Borzy C, Orenstein SB, **Nikolian VC**.
3. (*revision submitted*) Telemedicine-based Consultations Among Geriatric Patients Referred for Hernia Repair. Iqbal EJ\*, Bray JO\*, Sutton TL\*, Akhter MS\*, Orenstein SB, **Nikolian VC**. Surgery. 2022. PMID: ###.
4. (*accepted, in press*) Efficacy of New Patient Digital Health Encounters. Bray JO\*, Sutton TL\*, Akhter MS\*, Iqbal EJ\*, Orenstein SB, **Nikolian VC**. Hernia. 2022. PMID: ###.
5. (*accepted, in press*) Outcomes of Telemedicine-based Consultations Among Rural Patients Referred for Abdominal Wall Reconstruction and Hernia Repair. Bray JO\*, Sutton TL\*, Akhter MS\*, Iqbal EJ\*, Orenstein SB, **Nikolian VC**. Journal of American College of Surgeons. 2022. PMID: ###
6. Outcomes for Audio-Only and Video Based Preoperative Encounters for Abdominal Wall Reconstruction and Hernia Consultations. Bray JO\*, Sutton TL\*, Akhter MS\*, Iqbal EJ\*, Orenstein SB, **Nikolian VC**. American Journal of Surgery. 2022. PMID: 35094834.
7. Iqbal EJ\*, Sutton T\*, Akhter MS\*, Samhan A\*, MacDonald S\*, Coleman JR, Turner PL, **Nikolian VC**. Current Surgical Trainee Perceptions and Experiences in Telehealth. Telemedicine and eHealth. 2021. PMID: 34637650.
8. **Nikolian VC**, Akhter M\*, Iqbal EJ\*, Sutton T\*, Samhan A\*, Orenstein SB, Rosen MJ, Poulouse BK. A National Evaluation of Surgeon Experiences in Telemedicine for the Care of Hernia and Abdominal Core Health Patients. 2021. World J Surg. PMID: 34604922.
9. Sandhu G, Thompson-Burdine J, Sutzko DC, **Nikolian VC**, Boniakowski A, Georgoff PE, Matusko N, Prabhu K, Minter RM. OpTrust: An Effective Educational Bundle for Enhancing Faculty-Resident Intraoperative Entrustment. Annals of Surgery. 2021. PMID: 33979313.
10. LaPlaca MC, **Nikolian VC** et al. Preclinical Common Data Elements for Traumatic Brain Injury Research: Progress and Use Cases. Journal of Neurotrauma. 2021. PMID: 33297844.
11. Portney D, Rohan V, **Nikolian VC**, Wei A, Buchmueller T, Killaly B, Alam HB, Ellimoottil, C. Understanding the cost savings of video visits in outpatient surgical clinics. MHealth. 2020. PMID: 33437830.
12. Pharmacologic Modulation of Brain Metabolism by Valproic Acid can Induce a Neuroprotective Environment. Bhatti U, Karnovsky A, Denny I, Williams A, **Nikolian VC**, Biesterveld B, Siddiqui A, O'Connell R, Liu B, Li Y, Alam HB. Pharmacologic Modulation of Brain Metabolism by Valproic Acid can Induce a Neuroprotective Environment. J Trauma Acute Care Surg. 2020. PMID: 33196629.
13. Coleman JR, Abdelsatter JM, Carmichael H, Vigneshwar NG, Ryan R, Qiu Q, Nayyar A, Visenio MR, Sonntag CC, Chotai P, **Nikolian VC**, Ochoa J, Turner P, Glocker RJ. COVID-19 Pandemic and the Lived Experience of Surgical Residents, Fellows, and Early-Career Surgeons in the American College of Surgeons. Journal of the American College of Surgeons. 2020. PMID 33069850.
14. Sandhu G, Thompson-Burdine J, Sutzko DC, **Nikolian VC**, Boniakowski A, Georgoff PE, Matusko N, Prabhu K, Minter RM. Greater Faculty Familiarity with Residents Improves Intraoperative Entrustment. American Journal of Surgery. 2019. PMID: 31221455.

15. Kanters AE, **Nikolian VC**, Kamdar N, Regenbogen S, Hendren S, Suwanabol PA. Academic hospitals discharge fewer patients to subacute care facilities after colorectal resection. *Diseases of the Colon and Rectum*. 2019. PMID: 30844972
16. Williams AM, He W, Li Y, Bhatti UF, **Nikolian VC**, Chang P, Chang Z, Halaweish I, Liu B, Cheng X, Alam HB. Histone Deacetylase Inhibition Reduces Cardiomyocyte Hypoxia-Reoxygenation. *Current Molecular Medicine*. 2019. PMID: 30734677.
17. Chang P, Williams AM, Bhatti UF, Biesterveld BE, Liu B, **Nikolian VC**, Dennahy IS, Lee J, Li Y, Alam HB. Valproic Acid Attenuates Neural Apoptosis, Inflammation, and Degeneration 30 Days After Traumatic Brain Injury, Hemorrhagic Shock, and Polytrauma in a Swine Model. *J Am Coll Surg*. 2019. PMID: 30639301.
18. Kandagatla P, **Nikolian VC**, Matusko, Regenbogen SE, Hardiman KM. Assessment of Patient-Reported Outcomes and Readmission After Ileostomy Creation in Older Adults. *American Surgeon*. 2018. PMID: 30747639.
19. Williams AM, Bhatti UF, Dennahy IS, **Nikolian VC**, Chtraklin K, Graham N, Chang P, Zhou J, Biesterveld BE, Eliason J, Alam HB. Traumatic Brain Injury May Worsen Clinical Outcomes After Prolonged Partial Resuscitative Endovascular Balloon Occlusion of the Aorta (pREBOA) in Severe Hemorrhagic Shock Model. *J Trauma Acute Care Surg*. 2018. PMID: 30605139.
20. **Nikolian VC**, Dennahy IS, Weykamp M, Williams AM, Bhatti UF, Eidy H, Ghandour MH, Chang P, Chtraklin K, Li Y, Alam HB. Isoform-selective histone deacetylase inhibition reduces lesion size and edema following traumatic brain injury and hemorrhagic shock. *Journal of Trauma*. 2018. PMID: 30399139.
21. Williams AM, Bhatti UF, Barrett M, **Nikolian VC**, Han Br, Matusko N, Woodside KJ, Sandhu G. Resident Perceptions and Evaluations of Fellow-Led and Resident-Led Surgical Services. *American Journal of Surgery*. 2018. PMID: 30224072.
22. Williams AM, Bhatti UF, Dennahy IS, Chtraklin K, Chang P, Baccouche BS, Haraji M, Roy S, Zhou J, **Nikolian VC**, Deng Q, Tian Y, Hays GL, Hays JL, Alam HB. Complete and Partial Aortic Occlusion for Treatment of Hemorrhagic Shock in Swine. *Journal of Visualized Experiments*. 2018. PMID: 30199035.
23. Sandhu G, Thompson-Burdine J, Sutzko DC, **Nikolian VC**, Boniakowski A, Georgoff PE, Matusko N, Prabhu K, Minter RM. Bridging the Gap: The Intersection of Entrustability and Perceived Autonomy for Surgical Residents in the OR. *American Journal of Surgery*. 2018. PMID: 30177241.
24. **Nikolian VC**, Williams AM, Jacobs BN, Kemp MT, Wilson JK, Mulholland MW, Alam HB. Pilot Study to Evaluate the Safety, Feasibility, and Financial Implications of a Post-Operative Telemedicine Program. *Annals of Surgery*. 2018. PMID: 30095477.
25. Thompson-Burdine, J, Sutzko DC, **Nikolian VC**, Boniakowski A, Georgoff PE, Prabhu KA, Matusko N, Minter RM, Sandhu G. Impact of Gender on Intraoperative Entrustment of Surgical Trainees. *Surgery*. 2018. PMID: 30041964.
26. Weykamp M, **Nikolian VC**, Dennahy IS, Higgins GA, Georgoff PE, Remmer H, Ghandour MH, Alam HB. Rapid valproic acid-induced modulation of the proteome in a porcine model of traumatic injury. *J Surg Res*. 2018. PMID: 29907235.
27. Sutzko D, Boniakowski AE, **Nikolian VC**, Georgoff PE, Matusko N, Thompson-Burdine JA, Stoll HI, Prabhu K, Minter R, Sandhu G. Alignment of Personality is Associated with Increased Intraoperative Entrustment. *Annals of Surgery*. 2018. PMID: 29794849.
28. Williams AM, Dennahy IS, Bhatti U, Halaweish I, Xiong Y, Chang P, **Nikolian VC**, Chtraklin K, Brown J, Zhang Y, Zhang ZG, Chopp M, Buller B, Alam HB. Mesenchymal Stem Cell-Derived Exosomes Provide Neuroprotection and Improve Long-Term Neurologic Outcomes in a Swine Model of Traumatic Brain Injury and Hemorrhagic Shock. *J Neurotrauma*. 2018. PMID: 29690826.
29. Sandhu G, Thompson-Burdine J, **Nikolian VC**, Sutzko DC, Prabhu KA, Matusko N, Minter RM. Association of Faculty Entrustment With Resident Autonomy in the Operating Room. *JAMA Surg*. 2018. PMID: 29466559.
30. Chang P, Weykamp M, Dennahy IS, Williams AM, Bhatti UF, Lui B, **Nikolian VC**, Li Y, Alam HB. Histone deacetylase inhibitors: Isoform selectivity improves survival in a hemorrhagic shock model. *J Trauma Acute Care Surg*. 2018. PMID: 29401190.
31. Korley FK, **Nikolian VC**, Williams AM, Dennahy IS, Weykamp M, Alam HB. Valproic Acid Treatment Decreases Serum Glial Fibrillary Acidic Protein and Neurofilament Light Chain Levels in Swine Subjected to Traumatic Brain Injury. *J Neurotrauma*. 2018. PMID: 29415612.
32. **Nikolian VC**, Dennahy IS, Higgins G, Williams AM, Weykamp M, Georgoff PE, Eidy H, Ghandour MH, Chang P, Alam HB. Transcriptomic Changes Following Valproic Acid Treatment Induce Neurogenesis and Minimize Secondary Brain Injury. *J Trauma Acute Care Surg*. 2017. PMID: 29251707.

33. Georgoff PE, **Nikolian VC**, Higgins G, Chtraklin K, Eidy H, Ghandour MH, Williams A, Athey B, Alam HB. Valproic acid induces pro-survival transcriptomic changes in swine subjected to traumatic injury and hemorrhagic shock. *J Trauma Acute Care Surg.* 2017. PMID: 29251706.
34. **Nikolian VC**, Barrett M, Valbuena VS, Ibrahim IA, Eidy H, Ghandour MH, Ghaferi AA. Educational content and the use of social media at US departments of surgery. *Surgery.* 2017. PMID: 29241992.
35. Bruhn PJ, **Nikolian VC**, Halaweish I, Chang Z, Sillesen M, Liu B, Li Y, Alam HB. Tubastatin A Treatment Prevents Hemorrhage-Induced Endothelial Barrier Dysfunction. *J Trauma Acute Care Surg.* 2017. PMID: 29194316.
36. Georgoff PE, Shaughness G, Leininger L, **Nikolian VC**, Sandhu G, Reddy R, Hughes DT. Evaluating the performance of the Minute Feedback System: a novel web-based feedback tool for medical students. *Am J Surg.* 2017. PMID: 29128100.
37. **Nikolian VC**, Sutzko DC, Georgoff PE, Matusko N, Boniakowski A, Prabhu K, Church JT, Thompson-Burdine J, Minter RM, Sandhu G. Improving the Feasibility and Utility of OpTrust—a Tool Assessing Intraoperative Entrustment. *Am J Surg.* 2017. PMID: 29128100.
38. **Nikolian VC**, Dekker SE, Bambakidis T, Higgins GS, Dennahy IS, Georgoff PE, Williams AM, Andjekovic AV, Alam HB. Improvement of blood-brain barrier integrity in traumatic brain injury and hemorrhagic shock following treatment with valproic acid and fresh frozen plasma. *Crit Care Med.* 2017. PMID: 29095204.
39. Conner TM, **Nikolian VC**, Georgoff PE, Pai MP, Alam HB, Sun D, Reed RC, Zhang T. Physiologically based pharmacokinetic modeling of disposition and drug-drug interactions for valproic acid and divalproex. *Eur J Pharm Sci.* 2017. PMID: 29030176.
40. Shaughness G, Georgoff PE, Sandhu G, Leininger L, **Nikolian VC**, Reddy R, Hughes DT. Assessment of clinical feedback given to medical students via an electronic feedback system. *Journal of Surgical Research. J Surg Res.* 2017. PMID: 28985846.
41. Dekker SE, **Nikolian VC**, Sillesen M, Bambakidis T, Schober P, Alam HB. Different resuscitation strategies and novel pharmacologic treatment with valproic acid in traumatic brain injury. *Journal of Neuroscience Research. J Neurosci Res.* 2017. PMID: 28742231.
42. **Nikolian VC**, Georgoff PE, Pai MJ, Dennahy IS, Chtraklin K, Eidy H, Ghandour M, Han Y, Srinivasan A, Li Y, Alam HB. Valproic Acid Treatment Provides Neuroprotection in a Long-Term Survival Model of Swine Subjected to Traumatic Brain Injury, Hemorrhagic Shock, and Polytrauma. *Journal of Trauma.* 2017. PMID: 28493077.
43. Georgoff PE\*, **Nikolian VC\***, Bonham T, Pai MP, Tafatia C, Halaweish I, To K, Watcharotone K, Luo R, Sun D, Alam HB. Pharmacokinetics and Safety of High-Dose Intravenous Valproic Acid in Healthy Subjects: A Dose Escalation Trial To Support Clinical Translational Studies. *Clinical Pharmacokinetics.* 2017. PMID: 28497259.  
\*Co-first authors.
44. **Nikolian VC**, Pan B, Mesar R, Dennahy IS, Georgoff PE, Buan X, Liu B, Wu X, Duggan MJ, Alam HB, Li Y. Lung Protective Effects of Low-Volume Resuscitation and Pharmacologic Treatment of Swine Subjected to Polytrauma and Hemorrhagic Shock. *Inflammation.* 2017. PMID: 28493077.
45. Higgins GA, Allyn-Feur A, Georgoff P, **Nikolian V**, Alam HB, Athey BD. Mining the topography and dynamics of the 4D nucleome identifies novel CSN drug pathways. 2017. PMID: 28385536.
46. Sandhu G, **Nikolian VC**, Magas CP, Stansfield RB, Sutzko DC, Matusko N, Minter RM. OpTrust: A Valid and Reliable Tool to Assess Intraoperative Entrustment Behaviors. 2017. PMID: 28350564.
47. Higgins GA, Georgoff P, **Nikolian V**, Allyn-Feur A, Pauls B, Higgins R, Athey BD, Alam H. Network reconstruction reveals that valproic acid activates neurogenic transcriptional programs in adult brain following traumatic injury. *Pharmaceutical Research. Pharm Res.* 2017. PMID: 28271248.
48. **Nikolian VC**, Kamdar N, Regenbogen SE, Morris A, Byrn JC, Suwanabol P, Campbell DA, Hendren S. Anastomotic Leak after Colorectal Resection: A Population-Based Study of Risk Factors and Hospital Variation. *Surgery.* 2017. PMID: 28238345.
49. Bambakidis T, Dekker SE, Halaweish I, Liu B, **Nikolian VC**, Georgoff PE, Piascik P, Li Y, Martin Sillesen M, Alam HB. Valproic Acid Modulates Platelet and Coagulation Function In-Vitro. *Blood Coagulation and Fibrinolysis.* 2017. PMID: 28230635.
50. Georgoff PE\*, **Nikolian VC\***, Halaweish I, Chtraklin K, Bruhn PJ, Liu B, Li Y, Srinivasan A, Alam HB. Resuscitation with Lyophilized Plasma is Safe and Improves Neurologic Recovery in a Long-Term Survival Model of Swine Subjected to Traumatic Brain Injury, Hemorrhagic Shock, and Polytrauma. *Journal of Neurotrauma.* 2017. PMID: 28228060. \*Co-first authors.
51. Georgoff P, Halaweish I, **Nikolian VC**, Bonham T, Remmer H, Menon R, Liu B, Li Y, Alam HB. Alterations in the Human Proteome Following Administration of Valproic Acid. *J Trauma Acute Care Surg.* 2017. PMID: 27602906.

52. Halaweish I, Bambakidis T, **Nikolian VC**, Georgoff P, Bruhn P, Piascik P, Buckley L, Ashok S, Liu B, Li Y, Alam HB. Early Resuscitation with Lyophilized Plasma Provides Equal Neuroprotection Compared to Fresh Frozen Plasma in a Large Animal Model of Traumatic Brain Injury and Hemorrhagic Shock. *J Trauma Acute Care Surg*. 2016. PMID 27893618.
53. Chang Z, Li Y, He W, Liu B, Duan X, Halaweish I, Bambakidis T, Pan B, Liang Y, **Nikolian VC**, Georgoff P, Alam HB. Inhibition of Histone Deacetylase 6 Restores Intestinal Tight Junction in Hemorrhagic Shock. *J Trauma Acute Care Surg*. 2016. PMID: 27257709.
54. Brewer MB, Ochoa CJ, Woo K, Wartman SM, **Nikolian V**, Han S, Weaver FA, Rowe VL. Sartorius Muscle Flaps for Vascular Groin Wound Complications. *Am Surg*. 2015. PubMed ID: 26672588.
55. Zhao T, Alam HB, Liu B, Bronson RT, **Nikolian V**, Wu E, Chong W, Li Y. Selective Inhibition of SIRT2 Improves Outcomes in a Lethal Septic Model. *Curr Mol Med*. 2015. PubMed PMID: 26299770.
56. Wartman SM, Woo K, Herscu G, Morell M, **Nikolian V**, Manzur M, Weaver FA. Endoscopic vein harvest for infrainguinal arterial bypass. *J Vasc Surg*. 2013. PubMed ID: 23490296.
57. Pais E, Park J, Alexy T, **Nikolian V**, Ge S, Shaw K, Senadheera S, Hardee CL, Skelton D, Hollis R, Crooks GM, Kohn DB. Regulated expansion of human pancreatic beta-cells. *Mol Ther*. 2010. PMID: 20389286.

#### Non-peer-reviewed

1. *Not applicable*

#### Books

1. *Not applicable*

#### Chapters (\* denotes mentee)

1. (*in press*) Beiling M\*, Bazarian A\*, **Nikolian VC**. Robotic Transabdominal Preperitoneal Inguinal Hernia Repair. *Hernia Surgery: Current Principles, Second Edition*. Eds. Novitsky. Publisher: Springer. 2023.
2. (*in press*) **Nikolian VC**, Novitsky YW. eTEP Transversus Abdominis Release for Flank and Lumbar Hernias. *Atlas of eTEP Surgery, First Edition*. Eds: Balasubramaniam. Publisher: ####. 2022.
3. (*in press*) Bray JO\*, Beiling M\*, **Nikolian VC**. Inguinal Hernia Repair—Transabdominal Preperitoneal (TAPP). *Principles and Practice of Robotic General Surgery, First Edition*. Eds: Podolsky. Wolters Kluwer Health; Philadelphia. 2022.
4. (*submitted*) Santucci N\*, Mayo A, **Nikolian VC**. Building a hospital at home program to reduce length of stay in surgery. *Healthcare Delivery in Surgery: Scientific Principles and Practice, First Edition*. Eds: Dimick, Dossett, Ghaferi, Ibrahim, Telem. Publisher: ####. 2022.
5. **Nikolian VC**, Prigoff JG, Podolsky D. Teaching Robotic Surgery. *Atlas of Robotic General Surgery*. Eds: Novitsky YW. Elsevier; London, 2020.
6. Podolsky D, **Nikolian VC**, Novitsky YW. Robotic Posterior Component Separation via Transversus Abdominis Release. *Atlas of Robotic General Surgery*. Eds: Novitsky YW. Elsevier; London, 2020.
7. **Nikolian VC**, Podolsky D, Novitsky Y. Iatrogenic Abdominal Wall Injuries. *Fundamentals of Hernia Radiology*. Eds: Docimo S, Blatnik J, Pauli EM. Springer; New York, 2020.
8. Georgoff PE, **Nikolian VC**, Alam HB. Critical Care of the Surgical Patient: Principles in Study Design. In: *Scientific American Critical Care of the Surgical Patient*. Ed: Spain DA. Hamilton Decker Intellectual Properties; 2017.
9. **Nikolian VC**, Alam HB. The Next Generation of Hemorrhage Therapy. In: *Front Line Surgery: A Practical Approach (2<sup>nd</sup> ed)*. Eds: Martin MJ, Beekley AC, Eckert MJ. Springer; New York, 2017: 775-786.
10. Jaffe T, Cron D, Linzey JR, **Nikolian VC**, Ibrahim AM. The Digital Age of Academic Medicine: The Role of Social Media. *Medical Writing and Editing (1<sup>st</sup> ed)*. Eds: Markovac, Kleinman, Englesbe. Elsevier; Amsterdam, 2017.
11. **Nikolian VC**, Georgoff PE, Alam HB. Surgical Strategies in Trauma. In: *Penetrating Trauma. A Practical Guide on Operative Technique and Peri-Operative Management (2<sup>nd</sup> ed)*. Eds: Velmahos G, Degiannis E & Doll D. Springer; Berlin, Heidelberg, London, New York, 2016.
12. **Nikolian VC**, Regenbogen SE. Complications: Early Anastomotic Complications (leak, abscess and bleeding). In: *Clinical Decision Making in Colorectal Surgery (2<sup>nd</sup> ed)*. Eds: Maykel JA, Wexner SD, Steel SR. Springer; New York, 2017.
13. **Nikolian VC**, Hardiman K. Evaluation and Management of Gastrointestinal Cancer. *Cancer Rehabilitation: Principles and Practice (2<sup>nd</sup> ed)*. Ed: Stubblefield MD. Springer; New York, 2017.

#### Electronic Publications

1. *Not applicable*

## Reviews/Commentaries

1. **Nikolian VC**, Stowers J, Brasel. Technology and surgical training...friend or foe? JAMA Surgery. 2022. PMID: 35583865.
2. **Nikolian VC**, Coleman N, Podolsky D, Novitsky Y. Robotic-assisted transabdominal preperitoneal ventral hernia repair. Surgical Technology International. 2020. PMID: 32196564.
3. **Nikolian VC**, Regenbogen SE. Statewide Clinical Registries: The Michigan Surgical Quality Collaborative. Clinics in Colon and Rectal Surgery. 2019. PMID: 30647542.
4. Williams AM, Bhatti U, Alam HB, **Nikolian VC**. The use of telemedicine for post-operative visits. MHealth. 2018. PMID: 29963556.
5. **Nikolian VC**, Ibrahim A. What Does the Future Hold for Scientific Journals? Clin Colon Rectal Surg. 2017. PMID: 28924398.
6. **Nikolian VC**, Byrn JC. Identifying modifiable factors associated with postoperative ileus. J Surg Res. 2016. Pubmed ID: 26975463.
7. Halaweish I, **Nikolian V**, Georgoff P, Li Y, Alam HB. Creating a "Prosurvival Phenotype" Through Histone Deacetylase Inhibition: Past, Present, and Future. Shock. 2015. PubMed ID: 25565645.

## Other

1. **Nikolian VC**. "Telemedicine in the Future of Surgery." Post for Dr. Julio Mayol's Surgical Blog. JulioMayol.com October 2019.

## Abstracts (\* denotes mentee)

1. (*submitted*) Bray JO\*, Orenstein SB, **Nikolian VC**. Robotic Transabdominal Preperitoneal Repair of a Giant Inguinoscrotal Hernia. Western Surgical Association Annual Meeting. Santa Barbara, CA. November 2022.
2. (*accepted*) **Nikolian VC**, Bray JO\*, Orenstein SB. Achieving Preoperative Optimization Prior to Abdominal Wall Reconstruction. American Hernia Society Annual Meeting. Charlotte, NC. September 2022.
3. (*accepted*) Orenstein SB, Bray JO\*, **Nikolian VC**. Onlay mesh repair of parastomal hernias: A novel approach and review of a single institutional experience. American Hernia Society Annual Meeting. Charlotte, NC. September 2022.
4. (*submitted*) Shettig A\*, O'Connor AL\*, Santucci NM\*, Sutton TL\*, Bray JO\*, Orenstein SB, **Nikolian VC**. Outcomes and Patient Reported Experiences Among Geriatric Patients Utilizing Telemedicine-based Surgical Services. American College of Surgeon Clinical Congress. San Diego, CA. October 2022.
5. (*submitted*) Torres-Landa S\*, Sanchez M\*, **Nikolian VC**, Orenstein SB. Robotic transabdominal preperitoneal repair of large Morgagni hernia. American College of Surgeon Clinical Congress. San Diego, CA. October 2022.
6. Shettig A\*, Iqbal E\*, Bray JO\*, Sutton T\*, Akhter MS\*, Orenstein SB, **Nikolian VC**. Old Age Population, New Age Solution: Implications and Utility of Perioperative Telemedicine-based Care for Geriatric Patients. Oregon Health & Science University Research Week 2021. Portland, OR. May 2022.
7. Santucci NM\*, Bray JO\*, Sutton TL\*, Akhter MS\*, Orenstein SB, **Nikolian VC**. Your (Virtual) Doctor is Ready to See You Now: Telemedicine for New Patient Consultations at an Abdominal Wall Reconstruction Center. Oregon Health & Science University Research Week 2021. Portland, OR. May 2022.
8. O'Connor AL\*, Shettig A\*, Santucci NM\*, Sutton TL\*, Bray JO\*, Borzy C, Orenstein SB, **Nikolian VC**. Patient-Reported Experiences for Telemedicine-based Hernia Repair and Advanced Abdominal Wall Reconstruction Consultations. Oregon Health & Science University Research Week 2021. Portland, OR. May 2022. Oregon Health & Science University Research Week 2021. Portland, OR. May 2022.
9. O'Connor SA\*, Bray JO\*, Sutton TL\*, Akhter MS\*, Iqbal EJ\*, Orenstein SB, **Nikolian VC**. Bridging the Digital Divide: Perioperative Telemedicine Among Rural Patients Evaluated at a Tertiary Abdominal Wall Reconstruction and Hernia Center.
10. Rahman S\*, Bray J\*, Iqbal EJ\*, Orenstein SB, **Nikolian VC**. Robotic TAPP Inguinal Hernia Repair in Patient with Infrapubic Penile Prosthesis. SAGES Annual Meeting. Denver, CO. April 2022.
11. Bray JO\*, Akhter MS\*, Iqbal EJ\*, Samhan A\*, Wyland AE\*, Orenstein SB, **Nikolian VC**. Telemedicine for New Patient Evaluations at an Advanced Abdominal Wall Reconstruction Center. Academic Surgical Congress 2022. Orlando, FL. Feb 2022.
12. MacDonald SA\*, Wyland AE\*, Akhter MS\*, Iqbal EJ\*, Samhan A\*, Bray JO\*, Orenstein SB, **Nikolian VC**. Safety and efficacy of telehealth evaluations for rural patient populations presenting to a tertiary care abdominal wall reconstruction and hernia center. Western Surgical Association Annual Meeting 2021. Indian Wells, CA. Nov 2021.
13. Bray J\*, Iqbal EJ\*, Akhter MS\*, Samhan A\*, MacDonald SA\*, Wyland AE\*, Orenstein SB, **Nikolian VC**. Comparing



Efficacy of Telephone- and Video-based Preoperative Encounters at an Advanced Abdominal Wall Reconstruction and Hernia Center: Does Video-based Assessment Make a Difference? Northwest Pacific Surgical Association Annual Meeting. Portland, OR. Nov 2021.

14. Akhter M\*, Iqbal E\*, Dewey E\*, Sahman A\*, MacDonald S\*, Martindale RG, Orenstein SB, **Nikolian VC**. Utilization of telemedicine at an advanced hernia and abdominal wall reconstruction program. American College of Surgeons Clinical Congress. Washington, DC. October 2021
15. Podolsky D, Iqbal E, Tunder KH, Malave H, **Nikolian VC**, Novitsky YW. Benefits of Sugammadex in elimination of post-operative urinary retention following MIS inguinal hernia repairs: a single institutional experience. Americas Hernia Society. Americas Hernia Society 2021 Annual Meeting. Austin, TX. Sept 2021.
16. Akhter MS\*, MacDonald S\*, Wyland AE\*, Samhan A\*, Bray J\*, Martindale RG, Orenstein SB, **Nikolian VC**. A Pilot Study to Evaluate the Safety, Feasibility, and Potential Impact of an At-Home, Patient-Performed Surgical Drain Removal Program. Americas Hernia Society 2021 Annual Meeting. Austin, TX. Sept 2021.
17. Akhter MS\*, Wyland AE\*, Samhan A\*, MacDonald S\*, Bray J\*, Martindale RG, Orenstein SB, **Nikolian VC**. A Pilot Telehealth Utilization Among Older Adults Being Evaluated at an Abdominal Wall and Hernia Program. Americas Hernia Society 2021 Annual Meeting. Austin, TX. Sept 2021.
18. Podolsky D, **Nikolian VC**, Tunder K, Iqbal E, Novitsky YW. Progression of Hernia Disease as a Result of COVID-19 Related Surgical Delay: Analysis of Patients Treated at a High-Volume Hernia Center. Americas Hernia Society 2021 Annual Meeting. Austin, TX. Sept 2021
19. **Nikolian VC**. Integrating Surgical Trainees into Virtual Clinics. Association of Surgical Education 2021 Meeting. Thinking Out of the Box Abstracts. Virtual. May 2021.
20. Samhan A\*, Akhter M\*, Iqbal E\*, Dewey E, MacDonald S\*, Wyland AE\*, Martindale RG, Orenstein SB, **Nikolian VC**. Efficacy of digital health evaluations for patients undergoing advanced hernia and abdominal wall reconstruction. Oregon Health & Science University Research Week 2021. Portland, OR. May 2021.
21. MacDonald S\*, Akhter M\*, Wyland AE\*, Iqbal EJ\*, Dewey E, MacDonald S\*, Sahman A\*, Martindale RG, Orenstein SB, **Nikolian VC**. Digital, At-Home Drain Removal Following Abdominal Wall Reconstruction. Oregon Health & Science University Research Week 2021. Portland, OR. May 2021.
22. Iqbal EJ\*, MacDonald SA\*, Akhter MS\*, Wyland AE\*, Samhan A\*, Martindale RG, Orenstein SB, **Nikolian VC**. Initial Experience with At-Home Surgical Drain Removal Program with Abdominal Wall Reconstruction. Columbia University Medical Center Research Symposium. June 2021.
23. Iqbal EJ\*, Sutton T\*, Akhter MS\*, Samhan A\*, MacDonald S\*, Coleman JR, Turner PL, **Nikolian VC**. Telemedicine for the Surgical Trainee During the COVID-19 Pandemic: Results of a National Survey. Columbia University Medical Center Research Symposium. June 2021.
24. Bhatti UF, Karnovsky A, Dennahy I, Kachmann M, Williams AM, **Nikolian VC**, Biesterveld B, Kemp M, Wakam G, Siddiqui A, O'Connell R, Li Y, Alam HB. Pharmacologic Modulation of Brain Metabolism Can Create a Neuroprotective Environment. Western Trauma Association Annual Meeting. Sun Valley, ID, February 2020
25. Williams AM, Brown JF, Bhatti UF, Biesterveld BE, Graham NJ, Siddique AZ, Dekker SE, Andjelkovic A, **Nikolian VC**, Buller B, Alam HB. Early Treatment with Mesenchymal Stem Cell-Derived Exosomes Provides Neuroprotection and Improves Blood-Brain Barrier Integrity in a Swine Model of Traumatic Brain Injury and Hemorrhagic Shock. 78<sup>th</sup> Annual Meeting of the American Association for the Surgery of Trauma. Dallas, TX. September 2019.
26. Bhatti UF, Williams AM, **Nikolian VC**, Dennahy IS, Weykamp M, Georgoff PE, Biesterveld BE, Graham NJ, Siddiqui A, Li Y, Alam HB. Valproic acid treatment modulates the inflammatory and coagulation proteome following traumatic brain injury and hemorrhagic shock. American College of Surgeons Clinical Congress. San Francisco, CA. October 2019.
27. Dennahy IS, Williams AM, Weykamp M, Bhatti UF, **Nikolian VC**, Biesterveld BE, Alam HB. Valproic acid alters cerebral metabolism to protect against excitotoxicity after traumatic brain injury. Massey Regional TBI Conference, Ann Arbor, MI. October 2018.
28. Chang P, Williams AM, Dennahy IS, Bhatti UF, Liu B, **Nikolian VC**, Li Y, Alam HB. Valproic Acid Treatment Attenuates Degenerative Brain Lesions, Neuroinflammation, and Apoptosis in Long-Term Survival Model of Traumatic Brain Injury, Hemorrhagic Shock, and Polytrauma in Swine. American College of Surgeons Clinical Congress. Boston, MA. October 2018.
29. Williams AM, Chang P, Dennahy IS, Bhatti, UF, Liu B, **Nikolian VC**, Li Y, Alam HB. Valproic Acid Attenuates Degenerative Brain Changes, Neuroinflammation, and Apoptosis in Long-Term Swine Model of Traumatic Brain Injury, Hemorrhagic Shock, and Polytrauma. Frederick A. Collier Surgical Society. Cape Cod, MA. October 2018.
30. Williams AM, Bhatti UF, Dennahy IS, **Nikolian VC**, Chang P, Zhou J, Georgoff PE, Biesterveld BE, Eliason J, Alam HB. Prolonged Partial Resuscitative Endovascular Balloon Occlusion of the Aorta (pREBOA) Is Safe In Severe Hemorrhagic Shock, in the Absence of Traumatic Brain Injury. Frederick A. Collier Surgical Society. Cape Cod, MA. October 2018.

31. Sandhu G, Sutzko DC, **Nikolian VC**, Matusko N, Thompson-Burdine J, Prabhu K, Minter RM. An effective faculty development strategy for enhancing intraoperative entrustment of residents. American College of Surgeons Clinical Congress. Boston, MA. October 2018.
32. Williams AM, Bhatti UF, Dennahy IS, **Nikolian VC**, Chang P, Chtraklin K, O'Connell R, Lee J, Zhou J, Georgoff PG, Biesterveld B, Li Y, Eliason J, Alam HB. Prolonged Partial Resuscitative Endovascular Balloon Occlusion of the Aorta (pREBOA) is Safe in a Severe Hemorrhagic Shock Model, in the Absence of Traumatic Brain Injury. 77<sup>th</sup> Annual Meeting of the American Association for the Surgery of Trauma. San Diego, CA. September 2018.
33. Williams AM, Dennahy IS, Bhatti BF, Halaweish I, Xiong Y, Chang P, **Nikolian VC**, Chtraklin K, Brown J, Zhang Y, Zhang ZG, Chopp M, Buller B, Alam HB. Exosome administration provides neuroprotection and improves long-term outcomes in combined traumatic brain injury and hemorrhagic shock swine model. Michigan American College of Surgeons. Traverse City, MI. May 2018.
34. Williams AM, Bhatti UF, Dennahy IS, **Nikolian VC**, Chang P, Chtraklin K, O'Connell R, Lee J, Zhou J, Georgoff PG, Biesterveld B, Li Y, Eliason J, Alam HB. Prolonged Partial Resuscitative Endovascular Balloon Occlusion of the Aorta (pREBOA) is Safe in a Severe Hemorrhagic Shock Model, in the Absence of Traumatic Brain Injury. 30<sup>th</sup> Annual Moses Gunn Research Conference. Ann Arbor, MI. May 2018.
35. Dennahy IS, **Nikolian VC**, Williams AM, Weykamp M, Bhatti UF, Chang P, Chtraklin K, Eidy H, Ghandor MH, Alam HB. Valproic acid treatment alters the cerebral metabolomic profile in a traumatic brain injury model. 30<sup>th</sup> Annual Moses Gunn Research Conference. Ann Arbor, MI. May 2018.
36. Williams AM, **Vahagn VC**, Jacobs BN, Kemp MT, Wilson J, Alam HB. Prospective Study to Evaluate the Safety, Feasibility, and Financial Implications of a Post-Operative Telemedicine Program. 30<sup>th</sup> Annual Moses Gunn Research Conference. Ann Arbor, MI. May 2018.
37. **Nikolian VC**, Williams AM, Jacobs BN, Kemp MT, Wilson J, Alam HB. Prospective Study to Evaluate the Safety, Feasibility, and Financial Implications of a Post-Operative Telemedicine Program. 138<sup>th</sup> Annual American Surgical Association Meeting. Phoenix, AZ. April 2018.
38. Sandhu G, Thompson-Burdine J, Sutzko D, **Nikolian VC**, Georgoff PE, Boniakowski A, Prabhu K, Matusko N, Minter R. Greater Faculty-Resident Familiarity Improves Intraoperative Entrustment. 38<sup>th</sup> Annual Meeting of the Association for Surgical Education. Austin, TX. May 2018.
39. Sandhu G, Thompson-Burdine J, Matusko N, Sutzko D, **Nikolian VC**, Boniakowski A, Georgoff PE, Prabhu K, Minter R. Mind the Gap: A Pilot Study; A Divergence Between Full Entrustability and Perceived Autonomy for Surgical Residents in the OR. Plenary Podium Presentaiton. 38<sup>th</sup> Annual Meeting of the Association for Surgical Education. Austin, TX. May 2018.
40. Thompson-Burdine JA, Sutzko DC, **Nikolian VC**, Boniakowski A, Georgoff PE, Prabhu A, Matusko N, Minter RM, Sandhu G. Gender and Faculty Entrustment: An Objective Intraoperative Measurement of Entrustment Behaviors. 13<sup>th</sup> Annual Academic Surgical Congress. Jacksonville, FL. January 2018.
41. Georgoff PE, **Nikolian VC**, Higgins G, Chtraklin K, Eidy H, Ghandour M, Williams A, Athey B, Alam HB. Valproic acid induces Pro-survival transcriptomic changes in injured swine. Midwest Regional Committee on Trauma of the American College of Surgeons Competition. Madison, WI. November 2017.
42. **Nikolian VC**, Shaughness G, Georgoff PE, Sandhu G, Leininger L, Reddy R, Hughes DT. Improving Medical Education: Using Web-based Feedback for Medical Students During the Surgical Clerkship. University of Michigan Surgical Education Day. November 2017.
43. Sandhu G, Sutzko DC, **Nikolian VC**, Matusko N, Thompson-Burdine J, Prabhu K, Minter RM. The PGY3 Effect – A Pivotal Year of Steepest Growth in Surgical Residency. American College of Surgeons Clinical Congress. San Diego, CA. October 2017.
44. Weykamp M, **Nikolian VC**, Dennahy IS, Georgoff P, Higgins G, Chang P, Ghandour M, Tafatia C, Eidy H, Alam HB. Valproic acid treatment rapidly modulates the proteomic profile in a porcine model of hemorrhagic shock and traumatic brain injury. American College of Surgeons Clinical Congress. San Diego, CA. October 2017.
45. Dennahy IS, **Nikolian VC**, Weykamp M, Higgins G, Chtraklin K, Chang P, Eidy H, Ghandour M, Tafatia C, Alam HB. Valproic acid treatment alters the cerebral metabolomic profile in a traumatic brain injury model. American College of Surgeons Clinical Congress. San Diego, CA. October 2017.
46. **Nikolian VC**, Higgins GA, Dennahy IS, Weykamp M, Georgoff PE, Eidy H, Ghandour M, Chang P, Alam HB. Valproic treatment changes the transcriptome of the injured brain to enhance neuronal protection. 76<sup>th</sup> Annual Meeting of the American Association for the Surgery of Trauma. Baltimore, MD. September 2017.
47. Georgoff PE, Shaughness G, Leininger L, **Nikolian VC**, Sandhu G, Reddy R, Hughes DT. Evaluating the performance of the Minute Feedback System: a novel web-based feedback tool for medical students. 29<sup>th</sup> Annual Moses Gunn Research Conference. Ann Arbor, MI. May 2017.
48. **Nikolian VC**, Dennahy IS, Georgoff PE, Weykamp M, Chang P, Eidy H, Ghandour M, Tafatia C, Chtraklin K, Li Y, Alam HB. Isoform Selective Histone Deacetylase Inhibition for the Treatment of Traumatic Brain Injury Combined with

- Hemorrhagic Shock. 29<sup>th</sup> Annual Moses Gunn Research Conference. Ann Arbor, MI. May 2017.
49. Georgoff PE, **Nikolian VC**, Dennahy IS, Georgoff PE, Weykamp M, Chang P, Eidy H, Ghandour M, Tafatia C, Chtraklin K, Li Y, Alam HB. Valproic acid decreases brain lesion size and improves neurologic recovery in swine subjected to traumatic brain injury, hemorrhagic shock, and polytrauma. 29<sup>th</sup> Annual Moses Gunn Research Conference. Ann Arbor, MI. May 2017.
  50. **Nikolian VC**, Georgoff PE, Bonham T, Pai A, Tafatia C, Halweish I, To K, Watcharotone K, Kuo R, Sun D, Alam HB. Pharmacokinetics and Safety of High-Dose Intravenous Valproic Acid in Healthy Subjects: A Dose Escalation Trial To Support Clinical Translational Studies. 29<sup>th</sup> Annual Moses Gunn Research Conference. Ann Arbor, MI. May 2017.
  51. Prabhu K, **Nikolian VC**, Georgoff P, Sutzko D, Matusko N, Minter R, Sandhu G. Guiding Resident Autonomy Through Constructive Friction. 29<sup>th</sup> Annual Moses Gunn Research Conference. Ann Arbor, MI. May 2017.
  52. **Nikolian VC**, Georgoff PE, Bonham T, Pai A, Tafatia C, Halweish I, To K, Watcharotone K, Kuo R, Sun D, Alam HB. Pharmacokinetics and Safety of Intravenous Valproic Acid In Healthy Subjects: A dose escalation trial to support translational to treatment for hemorrhagic shock. 64<sup>th</sup> Annual Meeting of the Michigan Chapter of the American College of Surgeons. Boyne Mountain, MI. May 2017
  53. **Nikolian VC**, Matusko N, Camaj A, Regenbogen SE, Hardiman KM. Challenges Following Ileostomy Creation in Older Adults. American Society of Colon and Rectal Surgeons Annual Meeting. Seattle, WA. April 2017.
  54. Kanters A, **Nikolian VC**, Kamdar N, Mullard A, Hendren S, Suwanabol PA. Determinants of Discharge Destination in Colectomy Patients. American Society of Colon and Rectal Surgeons Annual Meeting. Seattle, WA. April 2017.
  55. Georgoff PE, Shaughnessy G, Leininger L, **Nikolian VC**, Sandhu G, Reddy RM, Hughes DT. Evaluating the performance of the Minute Feedback System: a novel web-based feedback app for medical students. 37<sup>th</sup> Annual Meeting of the Association for Surgical Education, San Diego, CA. April 2017.
  56. Georgoff P, Higgins G, **Nikolian VC**, Athey B, Alam HB. Using genomic clues to determine Valproate's protective mechanism of action in injured brain. American College of Surgeons Committee on Trauma Regional Resident Trauma Paper Competition. Region 5. Detroit, MI. November 2016.
  57. **Nikolian VC**, Kamdar N, Dennahy IS, Hendren S, Campbell DA, Suwanabol PA. Hospital Variation in Outcomes Following Colectomies in Frail Patients. 12<sup>th</sup> Annual Academic Surgical Congress; Las Vegas, NV. February 2017.
  58. **Nikolian VC**, Sandhu G, Magas CP, Sutzko DC, Matusko N, Minter RM. Guiding Resident Autonomy Through Constructive Friction. 12<sup>th</sup> Annual Academic Surgical Congress; Las Vegas, NV. February 2017.
  59. **Nikolian VC**, Georgoff PE, Chang P, Dennahy IS, Chtraklin K, Eidy H, Rasmussen M, Liu B, Li Y, Alam HB. Valproic Acid Treatment is Neuroprotective in Swine Subjected to Traumatic Brain Injury, Hemorrhagic Shock, and Polytrauma. Western Trauma Association Annual Meeting, Snowbird, UT. March 2017.
  60. **Nikolian VC**, Georgoff PE, Bruhn P, Halaweish I, Eidy H, Rasmussen M, Li Y, Alam HB. Resuscitation with Lyophilized Plasma is Safe and Provides Neuroprotection in a Long-Term Survival Model of Swine Subjected to Traumatic Brain Injury, Hemorrhagic Shock, and Polytrauma. Massey Regional TBI Conference. Ann Arbor, MI. October 2016.
  61. **Nikolian VC**, Georgoff PE, Chang P, Dennahy IS, Weykamp M, Eidy H, Rasmussen M, Li Y, Alam HB. Valproic Acid Treatment is Neuroprotective in Swine Subjected to Traumatic Brain Injury, Hemorrhagic Shock, and Polytrauma. Massey Regional TBI Conference. Ann Arbor, MI. October 2016.
  62. **Nikolian VC**, Dennahy IS, Georgoff PE, Chang P, Weykamp M, Eidy H, Ghandour M, Tafatia C, Li Y, Alam HB. Isoform Selective Histone Deacetylase Inhibition for the Treatment of Traumatic Brain Injury Combined with Hemorrhagic Shock. Massey Regional TBI Conference. Ann Arbor, MI. October 2016.
  63. **Nikolian VC**, Magas CP, Church J, Horne D, Barrett M, Stansfield BR, Minter RM, Sandhu G. Intraoperative Observation and Evaluation Improves Teaching and Increases Resident Autonomy. American College of Surgeons Clinical Congress, Washington, DC. October 2016.
  64. **Nikolian VC**, Dekker SE, Bambakidis T, Bruhn PJ, Georgoff PE, Andjelkovic AV, Pan B, Liu B, Li Y, Alam HB. Pharmacologic Resuscitation Decreases Blood-Brain-Barrier Permeability in a Porcine Model of Traumatic Brain Injury and Hemorrhage. American College of Surgeons Clinical Congress, Washington, DC. October 2016.
  65. **Nikolian VC**, Bruhn PJ, Georgoff PE, Halaweish I, Pan B, Liu B, Li Y, Alam HB. Histone Deacetylase 6 Inhibition Attenuates Neuronal Cell Death Following Oxygen-Glucose Deprivation and Reoxygenation. American College of Surgeons Clinical Congress, Washington, DC. October 2016.
  66. **Nikolian VC**, Georgoff PE, Bruhn PJ, Halaweish I, Pan B, Liu B, Li Y, Alam HB. Resuscitation with Lyophilized Plasma is Safe and Provides Neuroprotection in a Long-Term Survival Model of Swine Subjected to Traumatic Brain Injury, Hemorrhagic Shock, and Polytrauma. American College of Surgeons Clinical Congress, Washington, DC. October 2016.
  67. Bruhn PJ, **Nikolian VC**, Halaweish I, Chang Z, Sillesen M, Svenningsen P, Liu B, Li Y, Alam HB. Tubastatin A Prevents Hemorrhage-Induced Endothelial Barrier Dysfunction. American College of Surgeons Clinical Congress, Washington, DC. October 2016.

68. Georgoff P, Higgins G, **Nikolian VC**, Dekker SE, Bambakidis T, Sillesen M, Athey B, Alam HB. Valproic Acid Induces the NEUROD1 Transcriptional Program of Neurogenesis Following Traumatic Brain Injury. American College of Surgeons Clinical Congress, Washington, DC. October 2016.
69. **Nikolian VC**, Dekker SE, Bambakidis T, Bruhn PJ, Georgoff PE, Andjelkovic AV, Pan B, Liu B, Li Y, Alam HB. Pharmacologic Resuscitation Decreases Blood-Brain Barrier Permeability in a Porcine Model of Traumatic Brain Injury and Hemorrhagic Shock. 62<sup>nd</sup> Clinical Meeting of the Frederick A. Collier Surgical Society. Ann Arbor, MI. September 2016.
70. Magas C, Sandhu G, **Nikolian VC**, Horne DC, Stansfield RB, Minter RM. OpTrust – Minimally Invasive Observation Tool for Assessing Autonomy and Entrustment in the Operating Room. Health Professions Education Day. Ann Arbor, MI. June 2016.
71. **Nikolian V**, Bruhn P, Halaweish I, Chang Z, Sillesen M, Liu B, Li Y, Alam H. Tubastatin-A Attenuates Hemorrhage Induced Endothelial Barrier Dysfunction. 28<sup>th</sup> Annual Moses Gunn Research Conference. Ann Arbor, MI. May 2016.
72. **Nikolian V**, Georgoff P, Bruhn P, Halaweish I, Pan B, Liu B, Li Y, Alam H. Resuscitation with Lyophilized Plasma is Safe and Provides Neuroprotection in a Long-Term Survival Model of Swine Subjected to Traumatic Brain Injury, Hemorrhagic Shock, and Polytrauma. 28<sup>th</sup> Annual Moses Gunn Research Conference. Ann Arbor, MI. May 2016.
73. **Nikolian V**, Pan B, Liu B, Wang Y, He W, Chen E, Chen E, Li Y, Alam H. Inhibition of PAD4 Attenuates CitH3 Production and Mortality in a Rodent Model of Lethal Endotoxemia. 28<sup>th</sup> Annual Moses Gunn Research Conference. Ann Arbor, MI. May 2016.
74. Georgoff P, Higgins G, **Nikolian V**, Athey B, Alam H. Using Genomic Clues to Determine Valproate's Protective Mechanism of Action in Injured Brain. 28<sup>th</sup> Annual Moses Gunn Research Conference. Ann Arbor, MI. May 2016.
75. Georgoff P, Higgins G, Halaweish I, **Nikolian V**, Bonham T, Tafatia C, Remmer H, Menon R, Liu B, Li Y, Alam HB. Alterations in the healthy human proteome following administration of Valproate. 28<sup>th</sup> Annual Moses Gunn Research Conference. Ann Arbor, MI. May 2016.
76. **Nikolian VC**, Bruhn PJ, Halaweish I, Chang Z, Sillesen M, Liu B, Li Y, Alam HB. Hemorrhage Induced Endothelial Barrier Dysfunction. 63<sup>rd</sup> Annual Meeting of the Michigan Chapter of the American College of Surgeons. Mackinac Island, MI. May 2016.
77. Georgoff P, Higgins G, **Nikolian VC**, Athey B, Alam HB. Using genomic clues to determine Valproate's protective mechanism of action in injured brain. 63<sup>rd</sup> Annual Meeting of the Michigan Chapter of the American College of Surgeons. Mackinac Island, MI. May 2016.
78. Sandhu G, **Nikolian VC**, Horne DC, Stansfield RB, Magas CP, Minter RM. Scaffolding Surgical Residents Towards Autonomy. Macy Midwest Regional Conference on Innovations in General Medical Education. Ann Arbor, MI. May 2016.
79. Sandhu G, Magas C, **Nikolian VC**, Horne D, Minter R. Leadership through Student Teaching: Surgical Faculty Cues for Increasing Entrustment of Residents. AAMC Central Group on Educational Affairs Spring Meeting. Ann Arbor, MI. April 2016.
80. **Nikolian V**, Kamdar N, Regenbogen SE, Morris AM, Byrn J, Campbell DA, Hendren S. Anastomotic Leak after Colorectal Resection: A Population-Based Study of Risk Factors and Hospital Variation. American Society of Colon and Rectal Surgeons Annual Scientific Conference. Los Angeles, CA. May 2016.
81. Halaweish I, Bambakidis T, **Nikolian V**, Georgoff P, Joseph J, Piascik P, Srinivasan A, Liu B, Li Y, Alam HB. Early Treatment with Lyophilized Plasma as a Neuroprotective Strategy in a Large Animal Survival Model of Traumatic Brain Injury and Hemorrhagic Shock. Western Trauma Association Annual Meeting. Lake Tahoe, CA. March 2016.
82. Georgoff P, Halaweish I, **Nikolian V**, Bonham T, Remmer H, Menon R, Liu B, Li Y, Alam HB. Alterations in the Human Proteome following treatment with Valproic Acid. Western Trauma Association Annual Meeting. Lake Tahoe, CA. March 2016.
83. **Nikolian V**, He W, Chang Z, Liu B, Cheng X, Georgoff P, Bambakidis T, Halaweish I, Li Y, Alam HB. Protective Effect of Different HDAC Inhibitors on Hypoxia/Reoxygenation Induced Cardiomyocyte Injury. 11<sup>th</sup> Annual Academic Surgical Congress. Jacksonville, FL. February 2016.
84. Chen E, Liang Y, Liu B, Wang B, He W, Zhang J, Chen E, Li Y, **Nikolian V**, Alam HB. Inhibition of PAD4 Attenuates CitH3 Production and Mortality in a Rodent Model of Lethal Endotoxemia. 11<sup>th</sup> Annual Academic Surgical Congress. Jacksonville, FL. February 2016.
85. Bambakidis T, Dekker SE, Halaweish I, Liu B, Piascik P, He W, Li Y, Sillesen M, **Nikolian V**, Alam HB. Histone Deacetylase Inhibitors Modulate Platelet and Coagulation Function In-Vitro. 11<sup>th</sup> Annual Academic Surgical Congress. Jacksonville, FL. February 2016.
86. Ochoa C, **Nikolian V**, Wartman S, Lee W, Weaver FA, Rowe V. The Use of Sartorius Muscle Rotational Flaps for Groin Complications after Vascular Reconstruction. 26<sup>th</sup> Annual Western Vascular Society Meeting. Kauai, HI. September 2011.
87. **Nikolian V**, Stevanovic M. Outcome of the Treatment of Femoral Head Osteonecrosis Using Free Vascularized Fibula

Graft. Keck School of Medicine Student Research Forum. Los Angeles, CA. April 2010.

88. **Nikolian V**, Kohn DB. Prevalence of Viral Infections in Pediatric Patients Undergoing Hematopoietic Stem Cell Transplantation. Saban Research Institute of the Children's Hospital of Los Angeles Annual Research Symposium. Los Angeles, CA. July 2008.

### **Invited Lectures, Conference Presentations or Professorships:**

#### International and National

1. (*invitation accepted*) "*Mesh Lawsuits and How Surgeons Should Navigate Conversations Related to Mesh Complications.*" Expert Panelist. American Hernia Society Annual Meeting. Charlotte, NC. September 2022.
2. (*invitation accepted*) "*Establishing a Telemedicine-Based Practice in Hernia and Abdominal Wall Reconstruction.*" Expert Panelist. American Hernia Society Annual Meeting. Charlotte, NC. September 2022.
3. (*invitation accepted*) "*Early Career Insights and the Transition to Practice.*" Session Co-Chair. American Hernia Society Annual Meeting. Charlotte, NC. September 2022.
4. (*invitation accepted*) "*Going from Zero to 100: building a robotic practice.*" Expert Panelist. Society of Robotic and Digital Surgery. Orlando, FL. July 2022.
5. "*Highway to the Danger Zone...It is Not Just an Umbilical Hernia in a High-Risk Patient.*" Expert Panelist. SAGES 2022 Annual Meeting. Denver, CO. March 2022.
6. "*A review of past, active, and pending lawsuits against the hernia mesh industry.*" Expert Panelist. SAGES 2022 Annual Meeting. Denver, CO. March 2022.
7. "*Preoperative Optimization to Improve Surgical Outcomes in Loss of Domain Hernias.*" Expert Panelist. Symbiosis Abdominal Wall Reconstruction Convention. India. Virtual Presenter. Dec 2021.
8. "*Preoperative Risk Mitigation Strategies for Abdominal Wall Reconstruction.*" Expert Panelist. Australasian Hernia Society and Abdominal Wall Reconstruction Surgeons Annual Meeting. Australia. Virtual Presenter. Nov 2021.
9. "*Video Hernia Session.*" Session Co-Chair. SAGES Annual Meeting. Las Vegas, NV. Sept 2021.
10. "*Who Says You Can't Go Home? Creating a Virtual Surgical Home Using Telemedicine.*" Expert Panelist. ERAS Innovation Post-COVID—SAGES Faculty Course Overview. Las Vegas, NV. Sept 2021.
11. "*Hernia Prevention: Interpreting the Data and Considering New Strategies.*" Expert Panelist. Mexican Surgical Association Monthly Webinar. Virtual Presenter. June 2021.
12. "*The Transition to Practice: Insights from Early Practice Robotic Surgeons.*" Expert Panelist. Academic Surgical Congress 2021. Virtual Presenter. May 2021.
13. "*The Next Frontier in Surgical Care: Telemedicine and Telecommunications.*" Grand Rounds Presenter. American College of Surgeons Young Fellows Association Monthly Webinar. Virtual Presenter. May 2021.
14. "*Autonomy: The Secret Recipe for Surgical Education.*" Expert Panelist. Town Hall Meeting Panelist. American College of Surgeons Clinical Congress, Washington, DC. October 2016.

#### Regional and Local

1. "*Preparing for What You Can Prepare For: Advice for Intern Year.*" Washington State University School of Medicine. Surgery Transition to Residency Course. Invited Lecturer. Course Coordinator: Anjali Kumar, MD. Virtual. April 2022.
2. "*Transitioning to Practice in Academic Surgery.*" OHSU Resident Research Conference. March 2022.
3. "*Management of Ventral Hernias When Optimization is NOT Feasible.*" Multi-Institutional Hernia Rounds. Presentations by OHSU, UW, and UAB. Conference Coordinator and Host. March 2022.
4. "*Hernia Prevention and Repair Strategies for Transplant Surgeons.*" University of Michigan Transplant Grand Rounds. Ann Arbor, MI. Jan 2022.
5. "*Cases of Atypical Ventral Hernias.*" Multi-Institutional Hernia Rounds. Presentations by OHSU, UW, Cedars Sinai, and UAB. Conference Coordinator and Host. Dec 2021.
6. "*Hernia Prevention Strategies for Vascular Surgeons.*" OHSU Vascular Surgery Divisional Meeting. Portland, OR. Nov 2021.
7. "*Management of Complex Inguinal Hernia Presentations.*" Multi-Institutional Hernia Rounds. Presentations by OHSU, UW, Cedars Sinai, and UAB. Conference Coordinator and Host. Oct 2021.
8. "*Digital Health in Surgery: Past, Present, and Future.*" MedStar Health Department of Surgery Grand Rounds. Durham, NC. June 2021.
9. "*Meet the Surgery Program Directors of the Pacific Northwest Panel.*" Elson S. Floyd College of Medicine. Washington State University. May 2021.
10. "*Digital Health: The Next Frontier in Surgical Care.*" Oregon Health & Science University Department of General

Surgery Grand Rounds. Portland, OR. April 2021.

11. "How to Prepare for Residency." University of Michigan Department of Surgery Leadership Weekend. Presenter. Ann Arbor, MI. May 2019.
12. "Implementing Technology to Improve Delivery of Surgical Care." University of Michigan Department of Surgery Grand Rounds. February 2019.
13. "Amplifying Your Academic Impact with Social Media." University of Michigan Academic Communications Course. November 2018.
14. "Social Media to Maximize Your Academic Impact." University of Michigan Intern Bootcamp Lecture Series. February 2018.
15. "Complex Case Scenarios in Inflammatory Bowel Disease." Faculty Discussant: Karin Hardiman. University of Michigan Department of Surgery Senior Conference. November 2017.
16. "Success as a Surgeon-Scientist." Resident Discussant. Howard Hughes Medical Institute Midwest Regional Meeting. Ann Arbor, MI. November 2017.
17. "Surgery eClinic." University of Michigan Department of General Surgery Grand Rounds. Ann Arbor, MI. September 2017.
18. "Development of the General Surgery eClinic." University of Michigan Department of Emergency Medicine Faculty Retreat. Ann Arbor, MI. September 2017.
19. "Development of a Battlefield Deployable Traumatic Brain Injury Biosensor with Diagnostic and Therapeutic Potential." Massey Foundation TBI Grand Challenge 2017. Ann Arbor, MI. May 2017.
20. "Anastomotic Leak Within the Michigan Surgical Quality Collaborative: Risk Factors and Hospital Variation." Michigan Surgical Quality Collaborative (MSQC) and Anesthesiology Performance Improvement and Reporting Exchange (ASPIRE) Joint Meeting. Livonia, MI. April 2017.
21. "Diversity in Academic Medicine." Resident Panelist. Latin Medical Student Association, Midwest Region Annual Meeting. Ann Arbor, MI. February 2017.
22. "Identifying a Research Mentor." University of Michigan Resident Research Forum. Ann Arbor, MI. December 2016.
23. "Becoming a Surgeon." University of Michigan Undergraduate Research Opportunities Program. Ann Arbor, MI. January 2016.

#### Digital

1. "Management of Umbilical Hernias in High-Risk Populations." Behind the Knife: The Surgery Podcast. Role: Hernia Content Expert. Host and Discussant. April 2021.
2. "Preoperative Optimization for Abdominal Wall Reconstruction." Behind the Knife: The Surgery Podcast. Role: Hernia Content Expert. Host and Discussant. Dec 2021.
3. "Hernia Prevention Strategies for General Surgeons." Behind the Knife: The Surgery Podcast. Role: Hernia Content Expert. Host and Discussant. July 2021.
4. "Telemedicine for Hernia Patients." Hernia Talk with Dr. Shirin Towfigh. Podcast and Youtube Webinar. Guest Discussant. April 2021.
5. "Telemedicine in Surgical Care." Canadian Journal of Surgery Cold Steel Podcast. Featured Guest. March 2021.
6. "Hernia Repair: Does Gender Matter?" Columbia University Medical Center Health Points Webinar Series. Co-Host and Discussant. July 2020.
7. "COVID-19 Essentials for Surgeons." Behind the Knife: The Surgery Podcast. Role: Invited Guest Discussant on Telemedicine. March 2020.
8. "Oral Board Review: Esophagus." Behind the Knife: The Surgery Podcast – General Surgery Oral Board Preparation. Role: Invited Co-Host. November 2019.
9. "Case Scenarios with Thyroid Lesions." Behind the Knife: The Surgery Podcast – Medical Student and Intern Surgery Survival Guide. Role: Host. August 2018.
10. "Vascular Surgery Review." Behind the Knife: The Surgery Podcast – Medical Student and Intern Surgery Survival Guide. Role: Host. August 2018.
11. "Case Scenarios in Gastrointestinal Bleeding." Behind the Knife: The Surgery Podcast – Medical Student and Intern Surgery Survival Guide. Role: Host. August 2018.
12. "More Intern Dilemmas." Behind the Knife: The Surgery Podcast – Medical Student and Intern Surgery Survival Guide. Role: Host. July 2018.
13. "Common and Critical Intern Dilemmas." Behind the Knife: The Surgery Podcast – Medical Student and Intern Surgery Survival Guide. Role: Host. July 2018.
14. "Ensuring Success as a Surgical Intern." Behind the Knife: The Surgery Podcast – Medical Student and Intern Surgery Survival Guide. Role: Host. July 2018.

15. "Case Scenarios in Abdominal Hernias." Behind the Knife: The Surgery Podcast – Medical Student and Intern Surgery Survival Guide. Role: Host. June 2018.
16. "Case Scenarios in Sepsis." Behind the Knife: The Surgery Podcast – Medical Student and Intern Surgery Survival Guide. Role: Host. June 2018.
17. "Case Scenarios: Malignant Breast Lesions." Behind the Knife: The Surgery Podcast – Medical Student and Intern Surgery Survival Guide. Role: Host. May 2018.
18. "Case Scenarios: Trauma." Behind the Knife: The Surgery Podcast – Medical Student and Intern Surgery Survival Guide. Role: Host. May 2018.
19. "Evaluating a Trauma Patient." Behind the Knife: The Surgery Podcast – Medical Student and Intern Surgery Survival Guide. Role: Host. May 2018.
20. "Case Scenarios: Benign Biliary Disease." Behind the Knife: The Surgery Podcast – Medical Student and Intern Surgery Survival Guide. Role: Host. May 2018.
21. "Melanoma and Breast Cancer Mock Oral Board Examination." Behind the Knife: The Surgery Podcast. Role: Examinee. Examiner: Dr. Michael Sabel. December 2017.

#### Social Media Based

1. "Underrepresented Minorities in General Surgery Residency: Analysis of Interviewed Applicants, Residents, and Core Teaching Faculty." Resident and Associate Society of the American College of Surgeons Online Journal Club - #RASJACS. Host and Discussant. Featured Guest: Dr. Carrie Sims. September 2020.
2. "Rapid Response of an Academic Surgical Department to the COVID-19 Pandemic: Implications for Patients, Surgeons, and the Community." Resident and Associate Society of the American College of Surgeons Online Journal Club - #RASJACS. Host and Discussant. Featured Guest: Dr. Matthew Martin. May 2020.
3. "Stand Your Ground: Policy and Trends in Firearm-Related Justifiable Homicide and Homicide in the US." Resident and Associate Society of the American College of Surgeons Online Journal Club - #RASJACS. Host and Discussant. Featured Guest: Dr. Joseph Sakran. February 2020.
4. "Hartmann's Procedure vs Primary Anastomosis with Diverting Loop Ileostomy for Acute Diverticulitis." Resident and Associate Society of the American College of Surgeons Online Journal Club - #RASJACS. Host and Discussant. Featured Guest: Dr. Steven Wexner. October 2019.
5. "Resident Sensitive Processes of Care: Impact of Surgical Residents on Inpatient Testing." Resident and Associate Society of the American College of Surgeons Online Journal Club - #RASJACS. Host and Discussant. Featured Guests: Drs. Deanna Attai, Mary Hawn, Clifford Sheckter. July 2019.
6. "Influence of Gender on Surgical Residency Applicants' Recommendation Letters." Resident and Associate Society of the American College of Surgeons Online Journal Club - #RASJACS. Host and Discussant. Featured Guests: Drs. Daniel Dent and Stephanie Boone. April 2019.
7. "Impact of Debt and Financial Parameters on the Surgical Resident." Resident and Associate Society of the American College of Surgeons Online Journal Club - #RASJACS. Host and Discussant. Featured Guests: Drs. James Dahle and Daniel McCarthy. January 2019.
8. "REBOA." Resident and Associate Society of the American College of Surgeons Online Journal Club - #RASJACS. Host and Discussant. Featured Guests: Drs. Paula Ferrada, Matthew Martin. August 2018.
9. "Social Media in the Professional Setting." Resident and Associate Society of the American College of Surgeons Online Journal Club - #RASJACS. Host and Discussant. Featured Guests: Drs. Justin Dimick, Heather Logghe. June 2018.
10. "Enhanced Recovery After Colorectal Surgery." Resident and Associate Society of the American College of Surgeons Online Journal Club - #RASJACS. Host and Discussant. Featured Guests: Drs. Liane Feldman, Neil Hyman, Sean Langenfeld, Jonathan Mitchem, Henry Pitt, Steven Wexner. March 2018.
11. "Opioids in Surgical Patients." University of Michigan Department of General Surgery Twitter Journal Club - #UMichSurgJC. Host and Discussant. Featured Guest: Dr. Adil Haider. February 2018.
12. "Operating Room Headgear." Resident and Associate Society of the American College of Surgeons Online Journal Club - #RASJACS. Host and Discussant. Featured Guests: Drs. Julie Freischlag, Craig Coopersmith, Kamal Itani, Troy Markel. December 2017.
13. "Attrition in General Surgical Training." University of Michigan Department of General Surgery Twitter Journal Club - #UMichSurgJC. Host and Discussant. Featured Guests: Drs. Julie Sosa and Heather Yeo. August 2017.
14. "Surgical Coaching and Video Based Review of Operations." University of Michigan Department of General Surgery Twitter Journal Club - #UMichSurgJC. Host and Discussant. Featured Guests: Drs. Caprice Greenberg and Justin Dimick. May 2017.
15. "Rectal Cancer Surgery and the Z061 Trial." University of Michigan Department of General Surgery Twitter Journal

Club - #UMichSurgJC. Host and Discussant. Featured Guest: Dr. Steven Wexner. April 2017.

16. "The Impact of Frailty in Emergency General Surgery." University of Michigan Department of General Surgery Twitter Journal Club - #UMichSurgJC. Host and Discussant. Featured Guest: Dr. Bellal Joseph. March 2017.

## V. SERVICE

### Membership in Professional Societies:

- Abdominal Core Health Quality Collaborative (ACHQC)
- American College of Surgeons (ACS)
- Americas Hernia Society (AHS)
- Association for Academic Surgery (AAS)
- Association for Surgical Education (ASE)
- Collier Surgical Society of the University of Michigan
- European Hernia Society (EHS)
- John Jones Surgical Society of Columbia University
- Society of American Gastrointestinal and Endoscopic Surgeons (SAGES)
- Society for Surgery of the Alimentary Tract (SSAT)

### Granting Agency Review Work:

1. *Not applicable*

### Editorial and Ad Hoc Review Activities:

- Total annual reviews: 2022 (pending); 2021 (21); 2020 (4)
  - American Journal of Surgery (2021: 5 reviews; 2020: 2 reviews)
  - Annals of Surgery (2022: 1 review; 2021: 5 reviews)
  - Endoscopy (2021: 1 review)
  - Journal of American College of Surgeons (2021: 3 reviews)
  - Journal of Clinical Imaging Science (2022: 1 review)
  - Journal of Surgical Research (2021: 5 reviews; 2020: 1 review)
  - Surgical Endoscopy and Other Interventional Techniques (2021: 2 review)

### Committees:

#### National/International

- American Hernia Society – Practice Advisory Committee 2021-Present
  - Enhanced Recovery Protocol Advisory, Co-Author 2022
  - Component Separation Advisory, Co-Author 2022
- American College of Surgeon – Health Information Technology Committee
  - Committee Member 2021-2022
  - Chair, Digital Health and Telemedicine Subcommittee 2022-Present
- CareSyntax Hernia Collaborative, Founding Member 2021-Present
- Candidate Representative, AAS Basic & Translational Research Committee 2018-2020
- Resident & Associate Society of the American College of Surgeons (RAS-ACS) Journal Club
  - Contributor 2016-2017
  - Secretary 2017-2018
  - Vice President 2018-2019
  - President 2019-2020
- Board of Directors: @#CRS\_Trials, #CRSTrials 2017-2018
- RAS-ACS Twitter correspondent: @RAS-ACS, #traumasurgery, #colorectalsurgery 2016-2017

#### Regional

- *Not applicable*



## Institutional

- Robotic Surgery Steering Committee, OHSU, Member 2020-Present
- Surgical Education Research Collaborative, OHSU, Member 2020-Present
- OHSU Surgical Quality Committee, OHSU, Member 2021-Present
- Resident Director, University of Michigan Surgery eClinic Program 2017-2019
- University of Michigan Department of Surgery Webmaster & Advisor: @UMichSurgery 2017-2019

## **Service:**

- OHSU Department of Surgery Twitter Account Webmaster and Clinical Liaison 2021-Present
  - Generate daily content for Twitter account to highlight departmental accomplishments and promote faculty and residents on national stage

## **Clinical Responsibilities and Initiatives (since last promotion):**

- Abdominal Wall Reconstruction and Hernia Care  
Treatment of patients with abdominal wall and hernia defects including patient with loss of domain, enterocutaneous fistulae, mesh related complications, and sports related injuries.
  - Approximately 2 days of clinic per week (both in-person and virtual care)
  - Approximately 100-200 operative cases per year
  - Coverage of hernia service during call weekends and holidays with approximately 16-20 weekend/holiday calls per year, 2020-present
  - Clinical Initiatives Developed
    - Virtual Drain Removal Program
      - Patients leaving the hospital are provided resources and tools to manage and remove drains from home.
    - Postoperative Surveillance Program
      - Developed a formalized and evidence-based telephone surveillance program for all patients undergoing hernia surgery. Patients are followed annually with phone calls from advanced practice providers to document long term surgical outcomes.
    - Abdominal Core Health Quality Collaborative (ACHQC) Participation
      - Actively enrolling and improving institutional involvement in the ACHQC, the premier collaborative dedicated to abdominal core health and hernia surgery outcomes.
    - Improving Reimbursement for Hernia Care
      - Developing a surgeon led initiative to review and understanding billing practices related to abdominal wall reconstruction and standardizing billing/coding.
    - Intramural Outreach
      - Attend subspecialty meetings (e.g., Trauma conference, Tumor board) to provide expertise and facilitate operative planning for patients with abdominal wall defects.
    - Robotic Utilization and Optimization
      - Engaged with other surgeons to improve use of robotic technology at the institution.
      - Identified as a consultant by Intuitive Surgical and serve as a coach to surgeons entering practice.
- Emergency General Surgery  
Treatment of patients presenting for emergency general surgical evaluation. Staffing surgeon for all admitted patients and patients seen in consultation.
  - Approximately 1 week of call-coverage per quarter
  - Approximately 1 day of clinic per month (in-person)
  - Approximately 50-100 operative cases per year

## Honors and Awards

- New York Presbyterian High Value Care Shark Tank Award Recipient—Telemedicine in Surgery 2020
- ABSITE Achievement Award for University of Michigan Chief Class 2019
- Collier Society of the University of Michigan Traveling Fellowship 2018
- Michigan Chapter of American College of Surgeons Jeopardy Champion 2017

- Society of Thoracic Surgeons, Looking to the Future Scholarship 2013
- Alpha Omega Alpha Medical Honor Society 2012

## VI. TEACHING

### Direct Clinical and Didactic Teaching

Co-Core Surgical Clerkship Director: 10% FTE; direct the surgical core clerkship at OHSU, 2021-present.

Clinical teaching, OHSU medical students: approximately 12 rotations on hernia surgery per year with 1-2 students/rotation, 2020-present.

Transition to Surgical Internship Course Director, OHSU medical students: multiple didactic and technical sessions centered around foundational laparoscopic and open surgical skills, intern year skills training, and complex decision making. Approximately 12 hours/year.

Surgical Resident Quality Improvement Curriculum Faculty Director, OHSU, 2021-present. Support and coordinate resident-led QI initiatives for the Department of Surgery.

Clinical teaching, OHSU residents: approximately 12 rotations per year, 1-4 residents per rotation, duration 1 month per rotation, 2020-present.

Mock Oral Examiner, OHSU, 2020-present: multiple workshops with senior trainees to improve their skill set in mock oral board preparation and performance. Approximately 2-4 hours/year.

Surgery Resident Advanced Electronic Health Record Training and Optimization, OHSU, 2020-present.

### Multiple Level Learners

Surgical Telementor and Telecoaching (STAT) Collaborative

Role: Program Lead

Goal: Peer-to-peer technical skills coaching centered around advanced hernia surgery; Coordinated ### one-on-one video based coaching interactions among surgical faculty in the United States.

Timeframe: 2020-present

Extramural Collaborators: Jonathan Abelson, MD (Co-Investigator, Lahey Clinic); Hari Keshava, MD (University of California, Irvine); Patrick Georgoff, MD (WakeMed Medical Center)

Multi-institutional Hernia Case Conference (#HerniaRounds)

Role: Program Lead & CME Coordinator

Goal: Multi-institutional review of complex abdominal wall reconstruction cases and literature review

Frequency: Every other month

Timeframe: 2021-present

Extramural collaborators: Columbia University Medical Center, University of Washington, University of Florida, Mayo Clinic – Rochester, Cedars Sinai Medical Center, University of North Carolina, Pennsylvania State, University of California – San Francisco, University of Pennsylvania, among 30+ other programs around the United States, Europe, and South America

Behind the Knife Podcast

Role: Content Developer

Frequency: Quarterly

Goal: Quarterly review and recording of hernia and abdominal wall reconstruction content for the podcast

Timeframe: 2021-Present

Extramural collaborators: Scott Steele, MD (Cleveland Clinic); Patrick Georgoff, MD (WakeMed)

Intramural Collaborators: Sean B. Orenstein, MD (OHSU); Shahrose Rahman, MD (OHSU)

Telemedicine Virtual Journal Club  
Role: Program Lead  
Frequency: Weekly  
Goal: Weekly review of literature related to telemedicine and virtual care  
Timeframe: 2020-2021  
Extramural collaborators: Columbia University Medical Center, University of Alabama

## **Curriculum Development**

Transition to Surgical Internship Course  
Role: Faculty Director  
Goal: Enhance preparation for trainees entering surgical specialties  
Duration: Annual 2-week course  
Time frame: 2022-Present

General Surgery – Faculty Director of Resident Quality Improvement Program  
Role: Faculty Director  
Goal: Improve QI initiatives and support resident led QI projects.  
Duration: Annual  
Time frame: 2021-Present

## **Mentoring and Advising**

### ***Active Mentees:***

Mentee: Jordan Bray, DO – OHSU Research Volunteer  
Timeframe: 2021-Present  
Time commitment: 20-40 hours/week  
Mentorship role: Career and residency mentorship; Primary research mentor

Mentee: Diya Sabbagh, MD – Loyola University Resident (General Surgery)  
Timeframe: 2021-Present  
Time commitment: 1-2 hours/month  
Mentorship role: Career and residency mentorship established through AAS/SECOND Trial National Mentorship Network

Mentee: Patrick Georgoff, MD – WakeMed General Surgery, Assistant Professor of Surgery  
Timeframe: 2020-Present  
Time commitment: 2-4 hours/month  
Mentorship role: Career mentorship; Technical skills coaching with advanced robotic hernia repair techniques

Mentee: Emaad Iqbal, MD – Columbia University Medical Center, Resident (General Surgery)  
Timeframe: 2020-Present  
Time commitment: 5-10 hours/week  
Mentorship role: Career and residency mentorship; Secondary research mentor

Mentee: Abigail Shettig, BS – OHSU Medical Student  
Timeframe: 2021-Present  
Time commitment: 1-2 hours/week  
Mentorship role: Career and residency mentorship; Secondary research mentor  
Awards Attributable to Mentorship  
1) Women in Surgery Career Symposium National Scholarship (primary sponsor)

Mentee: Nicole Santuicci, MS – OHSU Medical Student  
Timeframe: 2021-Present  
Time commitment: 1-2 hours/week  
Mentorship role: Career and residency mentorship; Secondary research mentor

Awards Attributable to Mentorship

- 1) Women in Surgery Career Symposium National Scholarship (primary sponsor)

Mentee: Stephanie MacDonald, BS – OHSU Medical Student

Timeframe: 2020-Present

Time commitment: 1-2 hours/week

Mentorship role: Career and medical school mentorship; Primary research mentor

Awards Attributable to Mentorship

- 1) InventOR OHSU Representative (grant awarded for virtual educational program)
- 2) Women in Surgery Career Symposium National Scholarship (primary sponsor)

Mentee: Amber O'Connor, BS – OHSU Department of Surgery Research Assistant

Timeframe: 2021-Present

Time commitment: 2-4 hours/week

Mentorship role: Career and medical school mentorship; Primary research mentor

Awards Attributable to Mentorship

- 1) Women in Surgery Career Symposium National Scholarship (primary sponsor)

Mentee: Cynthia Ararandian, MD – OHSU Surgical Resident

Timeframe: 2021-Present

Time commitment: 1-2 hours/month

Mentorship role: Resident advisor; review resident milestones with competency committee

### **Former Mentees:**

Mentee: Mudassir Shah Ahkter, MBBS – OHSU Research Volunteer

Timeframe: 2020-2021

Time commitment: 20-40 hours/week

Mentorship role: Career and residency mentorship; Primary research mentor

Current Institution/Title: Nassau University Medical Center, East Meadow (Pediatrics Resident)

Mentee: Ashraf Samhan – OHSU Medical Student

Timeframe: 2020-2021

Time commitment: 1-2 hours/week

Mentorship role: Career and medical school mentorship; Secondary research mentor

Current Institution/Title: OHSU/Medical Student

Awards Attributable to Mentorship

- 1) OHSU InventOR Representative (grant awarded for virtual educational program)

Mentee: Alexandra Highet, MD – University of Michigan Medical Student

Timeframe: 2020-2021

Time commitment: 1-2 hours/month

Mentorship role: Career and residency mentorship

Current Institution/Title: University of California, San Francisco (General Surgery Resident)

Mentee: Alden Wyland – OHSU Medical Student

Timeframe: 2021

Time commitment: 1-2 hours/week

Mentorship role: Career and medical school mentorship; Secondary research mentor

Current Institution/Title: OHSU/Medical Student

Mentee: Umar Bhatti, MD – Cedars Sinai Medical Center (General Surgery Resident)

Role: Secondary research mentor and career advisor

Timeframe: 2017-Present

Current Institution/Title: Cedars Sinai Medical Center (General Surgery Resident)

## **Educational Leadership and Administration (includes Roles on Educational Committees)**

OHSU Faculty Director of Resident Quality Improvement Program  
Role: Direct and coordinate resident QI curriculum and projects  
Timeframe: 2021-present

Association for Academic Surgery and SECOND Trial – National Mentorship Network  
Role: Mentor  
Timeframe: 2020-present

OHSU Surgical Education Research Committee  
Role: Contributor  
Timeframe: 2020-present

OHSU Executive Education Committee  
Role: Contributor  
Timeframe: 2020-present

OHSU Robotic Steering Committee  
Role: Contributor  
Timeframe: 2020-present

## **Learner Assessment**

OHSU General Surgery Hernia Section Review of Resident and Student Evaluations (monthly)  
Timeframe: 2020 – Present

Letter of Recommendation Draftee (chronologic order)

- Mudassir Ahkter, MBBS – Pediatrics Residency Application. 2020. Accepted to training at Nassau University Medical Center; East Meadow, New York
- Umar Bhatti, MBBS – General Surgery Residency Application. 2020. Accepted to training at Cedars Sinai Medical Center; Beverly Hills, California.
- Sarayu Subramanian, MBBS – General Surgery Residency Application. 2021. Accepted to training at Texas Tech Medical Center; Lubbock, Texas..
- Saifullah Hasan, MD – General Surgery Residency Application. 2021. Pending acceptance.
- Jordan Bray, DO – General Surgery Residency Application. 2021. Accepted to training at Garden City Hospital; Garden City, Michigan.
- Avital O'Glasser, MD – Letter of support for Faculty Senate Award. 2022.

## **Honors and Awards for Education**

### Departmental

- Recognition of Excellence Award, University of Michigan Learning Environment Task Force 2017
- University of Michigan Bronze Beeper Teaching Award (Premier Resident Educator) 2015

### Institutional

- Faculty Flame Teaching Award (finalist, pending), OHSU School of Medicine 2022
- Faculty Flame Mentor Award (finalist, pending), OHSU School of Medicine 2022
- Faculty Flame Teaching Award (finalist), OHSU School of Medicine 2021