

## CURRICULUM VITAE

**Ravy K. Vajravelu, MD MSCE**

Assistant Professor of Medicine  
Division of Gastroenterology, Hepatology and Nutrition  
Department of Medicine  
University of Pittsburgh School of Medicine

Staff Gastroenterologist  
VA Pittsburgh Healthcare System

*Updated: April 8, 2024*

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### BIOGRAPHICAL

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### EDUCATION and TRAINING

#### UNDERGRADUATE

**Dates**

**Institution**

**Degree**

**Notes**

08/2004 – 05/2008

Johns Hopkins  
University  
Baltimore, MD

Bachelor of Science

Major: Biomedical  
Engineering  
Minor: Applied  
Statistics and Data  
Analysis

**GRADUATE**

<u>Dates</u>	<u>Institution</u>	<u>Degree</u>	<u>Notes</u>
07/2008 – 05/2012	Case Western Reserve University School of Medicine Cleveland, OH	Doctor of Medicine	
07/2016 – 08/2018	Perelman School of Medicine, University of Pennsylvania Philadelphia, PA	Master of Science	Clinical Epidemiology

**POSTGRADUATE**

<u>Dates</u>	<u>Institution</u>	<u>Training</u>	<u>Notes</u>
07/2012 – 06/2015	Hospital of the University of Pennsylvania Internal Medicine Residency Training Program Philadelphia, PA	Internal Medicine Residency	
07/2015 – 06/2018	Division of Gastroenterology and Hepatology, University of Pennsylvania, Philadelphia, PA	Gastroenterology Fellowship	Chief Fellow, FY2018

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**APPOINTMENTS and POSITIONS**
**ACADEMIC**

07/2018 – 06/2021	Division of Gastroenterology and Hepatology, University of Pennsylvania Philadelphia, PA	Instructor of Medicine
07/2018 – 06/2021	Center for Clinical Epidemiology and Biostatistics, Perelman School of Medicine, University of Pennsylvania Philadelphia, PA	Faculty Fellow

07/2021 – present	Division of Gastroenterology, Hepatology and Nutrition, University of Pittsburgh School of Medicine Pittsburgh, PA	Assistant Professor of Medicine (Tenure stream)
02/2023 – present	Institute for Clinical Research Education, University of Pittsburgh School of Medicine Pittsburgh, PA	Graduate Faculty

**NON-ACADEMIC**

07/2018 – 06/2021	University of Pennsylvania Health System Philadelphia, PA	Attending Gastroenterologist
07/2020 – present	<i>Pharmacoepidemiology and Drug Safety</i>	Associate Editor
07/2021 – present	VA Pittsburgh Healthcare System Pittsburgh, PA	Staff Gastroenterologist
07/2021 – present	Center for Health Equity Research and Promotion, VA Pittsburgh Healthcare System	Core Investigator
07/2021 – present	Center for Pharmaceutical Policy and Prescribing, Health Policy Institute, University of Pittsburgh	Faculty
08/2021 – 12/2022	<i>Evidence-Based GI</i>	Associate Editor
03/2022 – present	Center for Research on Health Care, Division of General Internal Medicine, Department of Medicine, University of Pittsburgh School of Medicine	Affiliated Faculty

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**CERTIFICATION and LICENSURE**
**SPECIALTY CERTIFICATION**

American Board of Internal Medicine	2015 – present
American Board of Gastroenterology	2018 – present

**MEDICAL OR OTHER PROFESSIONAL LICENSURE**

Pennsylvania State Board of Medicine: Training License	2012 – 2018
Pennsylvania State Board of Medicine	2016 – present
United States Drug Enforcement Agency License	2018 – present

### MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

American Gastroenterological Association	2012 – present
American College of Physicians	2012 – 2020
American College of Gastroenterology	2015 – present
American Society for Gastrointestinal Endoscopy	2015 – 2019
International Society for Pharmacoepidemiology	2016 – present

### HONORS

Tau Beta Pi Engineering Honor Society	2008
Distinguished Service Award Department of Biomedical Engineering, Johns Hopkins University	2008
Student Summer Research Fellowship Crohn's and Colitis Foundation of America	2009
Travel Grant International Conference on Pharmacoepidemiology and Therapeutic Risk	2016, 2017, 2018
Edward C. Raffensperger Teaching Award for Fellows Division of Gastroenterology, University of Pennsylvania	2018
Outstanding Reviewer <i>Annals of Internal Medicine</i>	2018 – 2020, 2023
Loan Repayment Award National Institutes of Health	2018 – present

Poster of Distinction (first author) Digestive Disease Week	2019
Sidney Cohen Teaching Award for Gastroenterology Faculty Division of Gastroenterology and Hepatology, University of Pennsylvania	2020
American College of Gastroenterology Institute Clinical Research Leadership Program	2023

## PUBLICATIONS

**Web of Science h-index:** 13 (as of 02/06/2024)

**PubMed My Bibliography:**

<https://www.ncbi.nlm.nih.gov/myncbi/ravy.vajravelu.1/bibliography/public/>

*\* Indicates equal contribution*

## ORIGINAL PEER REVIEWED ARTICLES

1. Cannon Carolyn L, Hogue Lisa A, **Vajravelu Ravy K**, Capps George H, Ibricevic Aida, Hindi Khadijah M, Kascatan-Nebioglu Aysegul, Walter Michael J, Brody Steven L, Youngs Wiley J. In Vitro and Murine Efficacy and Toxicity Studies of Nebulized SCC1, A Methylated Caffeine-Silver(I) Complex, for Treatment of Pulmonary Infections. Antimicrob Agents Chemother. 2009 Aug;53(8): 3285-93. Epub 2009 May 18. PMID: 19451294. PMCID: PMC2715611.
2. Song Hong, Hobbs Robert F, **Vajravelu Ravy**, Huso David L, Esaias Caroline, Apostolidis C, Morgenstern Alfred, Sgouros George. Radioimmunotherapy of Breast Cancer Metastases with Alpha-Particle Emitter 225Ac: Comparing Efficacy with 213Bi and 90Y. Cancer Res. 2009 Dec;69(23): 8941-8. Epub 2009 Nov 17. PMID: 19920193. PMCID: PMC2789180
3. **Vajravelu Ravy K**, Guerrero Dubert M, Jury Lucy A, Donskey Curtis J. Evaluation of stethoscopes as Vectors of Clostridium difficile and Methicillin-Resistant Staphylococcus aureus. Infect Control Hosp Epidemiol. 2012 Jan;33(1): 96-8. Epub 2011 Nov 11. PMID: 22173532.
4. Scott Frank I, **Vajravelu Ravy K**, Bewtra Meenakshi, Mamtani Ronac, Lee Dale, Goldberg David S, Lewis James D: The Benefit-to-Risk Balance of Combining Infliximab with Azathioprine Varies with Age: A Markov Model. Clin Gastroenterol Hepatol. 2015 Feb;13(2): 302-9.e11. Epub 2014 Aug 10. PMID: 25117775. PMCID: PMC4324381.

5. Papamichael Konstantinos, Chachu Karen A, **Vajravelu Ravy K**, Vaughn Byron P, Ni Josephine, Osterman Mark T, Cheifetz Adam S. Improved Long-Term Outcomes of Patients with Inflammatory Bowel Disease Receiving Proactive Compared with Reactive Monitoring of Serum Concentrations of Infliximab. Clin Gastroenterol Hepatol. 2017 Oct;15(10): 1580-8.e3. Epub 2017 Mar 30. PMID: 28365486. PMCID: PMC5605429.
6. Osterman Chelsea K, Alanzi Jaber, Lewis James D, Kaufman Elizabeth L, Narayan Vivek, Boursi Ben, **Vajravelu Ravy K**, Scott Frank I, Malkowicz S Bruce, Mamtani Ronac. Association between Symptomatic versus Asymptomatic Recurrence and Survival in Bladder Cancer. Clin Genitourin Cancer. 2018 Jun;16(3): 235-9. Epub 2017 Dec 6. PMID: 29287969. PMCID: PMC5970004.
7. **Vajravelu Ravy K**, Osterman Mark T, Aberra Faten N, Roy Jason A, Lichtenstein Gary R, Mamtani Ronac, Goldberg David S, Lewis James D, Scott Frank I. Indeterminate QuantiFERON-TB Gold Increases Likelihood of Inflammatory Bowel Disease Treatment Delay And Hospitalization. Inflamm Bowel Dis. 2017 Dec;24(1): 217-26. PMID: 29272482. PMCID: PMC7007987.
8. Papamichael Konstantinos, **Vajravelu Ravy K**, Osterman Mark T, Cheifetz Adam S. Long-Term Outcome of Infliximab Optimization for Overcoming Immunogenicity in Patients with Inflammatory Bowel Disease. Dig Dis Sci. 2018 Mar;63(3): 761-7. Epub 2018 Jan 16. PMID: 29340807. PMCID: PMC5823777.
9. Newberry Carolyn, **Vajravelu Ravy K**, Pickett-Blakely Octavia, Falk Gary, Yang Yu Xiao, Lynch Kristle L. Achalasia Patients are at Nutritional Risk Regardless of Presenting Weight Category. Dig Dis Sci. 2018 May;63(5): 1243-9. Epub 2018 Feb 2. PMID: 29468378.
10. Papamichael Konstantinos, **Vajravelu Ravy K**, Vaughn Byron P, Osterman Mark T, Cheifetz Adam S: Proactive Infliximab Monitoring Following Reactive Testing is Associated with Better Clinical Outcomes than Reactive Testing Alone in Patients with Inflammatory Bowel Disease. J Crohns Colitis. 2018 Jun;12(7): 804-10. PMID: 29590345. PMCID: PMC7189980.
11. **Vajravelu Ravy K**, Scott Frank I, Mamtani Ronac, Li Hongzhe, Moore Jason H, Lewis James D. Medication Class Enrichment Analysis: A Novel Algorithm to Analyze Multiple Pharmacologic Exposures Simultaneously Using Electronic Health Record Data. J Am Med Inform Assoc. 2018 Jul;25(7): 780-9. PMID: 29378062. PMCID: PMC6016702
12. **Vajravelu Ravy K**, Mamtani Ronac, Scott Frank I, Waxman Adam, Lewis James D: Incidence, Risk Factors, and Clinical Effects of Recurrent Diverticular Hemorrhage: A Large Cohort Study. Gastroenterology. 2018 Nov;155(5):1416-27. Epub 2018 Jul 26. PMID: 30056095. PMCID: PMC6016702.
13. Dalal Rahul S, **Vajravelu Ravy K**, Lewis James D, Lichtenstein Gary R. Hospitalization Outcomes for Inflammatory Bowel Disease in Teaching vs Nonteaching Hospitals. Inflamm Bowel Dis. 2019 Nov;25(12): 1974-82. PMID: 31039244.

14. **Vajravelu Ravy K**, Copelovitch Larry, Osterman Mark T, Scott Frank I, Mamtani Ronac, Lewis James D, Denburg Michelle R. Inflammatory Bowel Diseases are Associated with Increased Risk for Chronic Kidney Disease, which Decreases with Age. Clin Gastroenterol Hepatol. 2020 Sept;18(10): 2263-8. Epub 2019 Nov 1. PMID: 31683056. PMCID: PMC7569504.
15. Scott Frank I, Lou Michelle, Shah Yash, Lasch Karen, **Vajravelu Ravy K**, Mamtani Ronac, Fennimore Blair, Gerich Mark E, Lewis James D. Identification of the Most Cost Effective Position of Vedolizumab Among the Available Biologic Drugs for the Treatment of Ulcerative Colitis. J Crohns Colitis. 2020 Jun;14(5): 575-87. PMID: 31901085. PMCID: PMC7303595.
16. Kolb Jennifer M, Han Samuel, Scott Frank I, Murphy Caitlin C, Hosokawa Patrick, Cook Michael B, Fox Charlie, Friedman Chloe, McCarter Martin, **Vajravelu Ravy K**, Lieu Christopher H, Gleisner Ana, Falk Gary W, Katzka David A, Wani Sachin. Early Onset Esophageal Adenocarcinoma Presents with Advanced Stage Disease but has Improved Survival Compared with Older Individuals. Gastroenterology. 2020 Dec;159(6): 2238-40. Epub 2020 Aug 8. PMID: 32777286.
17. Scott Frank I, Hans Amneet K, Gerich Mark E Fennimore Blair, Mamtani Ronac, **Vajravelu Ravy K**, Lewis James D. Identifying the most effective treatment sequence with ustekinumab in standard treatment algorithms for Crohn's disease. Clin Gastroenterol Hepatol. 2021 Oct;19(10): 2082-92.e10. Epub 2020 Aug 12. PMID: 32801006.
18. Dawwas Ghadeer, Brensinger Colleen M, **Vajravelu Ravy K**, Wu Qufei, Kelly Colleen R, Laine Loren, Wu Gary D, Lewis James D: Long-term outcomes following multiply recurrent Clostridioides difficile infection and fecal microbiota transplantation. Clin Gastroenterol Hepatol. 2022 Apr;20(4):806-16. Epub 2020 Dec 8. PMID: 33307184; PMCID: PMC8184854.
19. Gandle Cassandra, Scott Frank I, Waljee Akbar, **Vajravelu Ravy K**, Sansgiry Shubhada, Hou Jason K: Development and Validation of an Administrative Codes Algorithm to Identify Abdominal Surgery and Bowel Obstruction in Patients with Inflammatory Bowel Disease. Crohns Colitis 360. 2021 Jan;3(1).
20. Scott Frank I, **Vajravelu Ravy K**, Mamtani Ronac, Bianchina Nicholas, Mahmoud Najia, Hou Jason K, Wu Qufei, Wang Xingmei, Haynes Kevin, Lewis James D. Association between Statin Use at the Time of Intra-Abdominal Surgery and Post-Operative Adhesion-Related Complications and Small Bowel Obstruction. JAMA Netw Open. 2021 Feb;4(2): e2036315. PMID: 33533930. PMCID: PMC7859844.
21. **Vajravelu Ravy K**, Kolb Jennifer M, Thanawala Shivani U, Scott Frank I, Han Samuel, Singal Amit G, Falk Gary W, Katzka David A, Wani Sachin. Characterization of Prevalent, Post-Endoscopy, and Incident Esophageal Cancer in the United States: A Retrospective Cohort Study. Clin Gastroenterol Hepatol. 2022 Aug;20(8): 1739-47. Epub 2021 Feb 5. PMID: 33549872. PMCID: PMC8895727.
22. Han Samuel, Kolb Jennifer, Hosokawa Patrick, Friedman Chloe, Fox Charlie, Scott Frank, Lieu Christopher, **Vajravelu Ravy K**, McCarter Martin, Murphy Caitlin, Cook Michael B, Gleisner Ana, Falk Gary, Katzka David, Wani Sachin. The Volume-Outcome Effect Calls for Centralization of Care in Esophageal Adenocarcinoma:

- Results from a Large National Cancer Registry. Am J Gastroenterol. 2021 Apr;116(4): 811-5. PMID: 33982952.
23. Sawas Tarek, Mounaem Majzoub Abdul Haddad James, Tielleman Thomas, Nayfeh Tarek, Yadlapati Rena, Singh Siddharth, Kolb Jennifer, **Vajravelu Ravy K**, Katzka David A, Wani Sachin. Magnitude and Time-Trend Analysis of Post-Endoscopy Esophageal Adenocarcinoma: A Systematic Review and Meta-Analysis. Clin Gastroenterol Hepatol. 2022 Feb;20(2): e31-e50. Epub 2021 Apr 23. PMID: 33901662.
  24. Segura Abraham, Dalal Rahul S, Golla Meghana, Gerson James N, Mahmud Nadim, Lewis James D, **Vajravelu Ravy K**. Endoscopy is Not Associated with Infectious Adverse Events After Hematopoietic Cell Transplantation: A Retrospective Cohort Study. Dig Dis Sci. 2022 Jun;67(6): 2310-9. Epub 2021 May 29. PMID: 34050445. PMCID: PMC8820278.
  25. **Vajravelu Ravy K\***, Shapiro Jordan M\*, Ni Josephine, Thanawala Shivani U, Lewis James D, El-Serag Hasham B. Risk for Post-Colonoscopy Irritable Bowel Syndrome in Patients with and without Antibiotic Exposure: A Retrospective Cohort Study. Clin Gastroenterol Hepatol. 2022 Jun;20(6): e1305-22. Epub 2021 Sep 3. PMID: 34481956. PMCID: PMC8891390.
  26. DeJesse Jeshua, **Vajravelu Ravy K**, Dudzik Christina, Constantino Gillain, Long Jessica M, Wangenstein Kirk J, Valverde Kathleen D, Katona Bryson W. Uptake and Outcomes of Small Intestinal and Urinary Tract Cancer Surveillance in Lynch Syndrome. World J Clin Oncol. 2021 Nov;12(11): 1023-36. PMID: 34909397. PMCID: PMC8641013.
  27. **Vajravelu Ravy K**, Kolb Jennifer M, Gellad Walid F, Scott Frank I, Tavakkoli Anna, Singal Amit, Katzka David A, Falk Gary W, Wani Sachin. Patient Factors Associated with Gastroesophageal Reflux Disease Diagnostic Evaluation Strategies: A Retrospective Cohort Study Using Real-World Evidence from a Large U.S. Medical Claims Database. Gastro Hep Advances. 2022 Jan;1(4):563-72.
  28. Constant Brad D, deZoeten Edwin F, Stahl Marisa G, **Vajravelu Ravy K**, Lewis James D, Fennimore Blair, Gerich Mark E, Scott Frank I. Delays Related to Prior Authorization in Inflammatory Bowel Disease. Pediatrics. 2022 Mar;149(3). PMID: 35190811.
  29. Kolb Jennifer M, Chen Mindy, Tavakkoli Anna, Gallegos Jazmyne, O'Hara Jack, Tarter Wyatt, Hochheimer Camille J, Golubski Bryan, Kopplin Noa, Hennessey Lilly, Kalluri Anita, Devireddy Shalika, Scott Frank I, Falk Gary W, Singal Amit G, **Vajravelu Ravy K**, Wani Sachin. Patient Knowledge, Risk Perception and Barriers to Barrett's Esophagus Screening. Am J Gastroenterol. 2023 Apr;118(4):615-26. Epub 2022 Oct 11. PMID: 36219171.
  30. Frank David A, Johnson Amber E, Hausmann Leslie RM, Gellad Walid F, Roberts Eric T, **Vajravelu Ravy K**. Disparities in Guideline-Recommended Statin Use for Prevention of Atherosclerotic Cardiovascular Disease by Race, Ethnicity, and Gender: A Nationally Representative Cross-Sectional Analysis of Adults in the United States.



Ann Intern Med. 2023 Aug;176:1057-66. Epub 2023 Jul 25. PMID: 37487210.  
Altmetric score 175 (top 5%) as of 12/18/23.

31. Vajravelu Mary E, Chu Patricia Y, Frank David A, Ragavan Maya I, **Vajravelu Ravy K.** Projected Impact of Anti-Obesity Pharmacotherapy Use on Racial and Ethnic Disparities in Adolescent Obesity. Pediatr Obes. Epub 2024 Feb 6. PMID 38318987
32. Giza Richard J, Millenson Marisa E, Levinthal David J, **Vajravelu Ravy K.** Suboptimal Performance of Microscopic Colitis Diagnosis Codes: A Bottleneck for Epidemiologic Insights. Clin Trans Gastroenterol. Epub 2024 Mar 25.
33. **Vajravelu Ravy K,** Byerly Amy R, Feldman Robert, Rothenberger Scott D, Schoen Robert E, Gellad Walid F, Lewis JD. Active Surveillance Pharmacovigilance for *Clostridioides difficile* Infection and Gastrointestinal Bleeding: An Analytic Framework Based on Case-Control Studies. eBioMedicine. In press 2024 April 8. Impact factor 11.1 as of 04/08/24.

#### OTHER PEER REVIEWED PUBLICATIONS

1. **Vajravelu Ravy K,** Mehta Shivan J, Karasic Thomas B, Mamtani Ronac, Scott Frank I, Lewis James D. Understanding Characteristics of Who Undergoes Testing is Crucial for the Development of Diagnostic Strategies to Identify Individuals at Risk for Early-Age Onset Colorectal Cancer. Gastroenterology. 2021 Mar;160(4): 993-8. Epub 2021 Jan 12. PMID: 33444572. PMCID: PMC7956055. (Commentary)
2. Wani Sachin, Yadlapati Rena, Singh Siddharth, Sawas Tarek, Hall Matthew, Bergman Jacques, Canto Marcia I, Chak Amitabh, Corley Douglas A, Falk Gary W, Fitzgerald Rebecca C, Haidry Rehan, Inadomi John M, Iyer Prasad G, Kolb Jennifer, Komanduri Srinadh, Konda Vani, Montgomery Elizabeth A, Muthusamy V Raman, Rubenstein Joel H, Schnoll-Sussman Felice, Shaheen Nicholas J, Smith Michael, Spechler Stuart, **Vajravelu Ravy K,** Katzka David A. Post-Endoscopy Esophageal Neoplasia in Barrett's Esophagus: Consensus Statements from an International Expert Panel. Gastroenterology. 2022 Feb; 162(2): 366-72. Epub 2021 Oct 14. PMID: 34655571. PMCID: PMC8792371. (Commentary)
3. Kolb Jennifer M, Chen Mindy, Tavakkoli Anna, Singal Amit G, **Vajravelu Ravy K,** Wani Sachin on behalf of the SCREEN-BE Study Group. Study of Compliance, Practice patterns, and Barriers REGARDING Established National Screening Programs for Barrett's Esophagus among Gastroenterology and Primary Care Providers: The SCREEN-BE Study. Gastroenterology. 2022 May;162(6): 1568-73. Epub 2022 Feb 9. PMID: 35150724. (Commentary)

#### OTHER NON-PEER REVIEWED PUBLICATIONS

1. Sitzlar Brett, **Vajravelu Ravy K,** Jury Lucy, Donskey Curtis J, Jump Robin L P. Environmental Decontamination with Ultraviolet Radiation to Prevent Recurrent Clostridium Difficile Infection in 2 Roommates in a Long-Term Care Facility. Infect

- Control Hosp Epidemiol. 2012 May;33(5): 534-6. PMID: 22476286. PMCID: PMC6913032. (Letter to the Editor)
2. **Vajravelu Ravy K** and Ginsberg Gregory G. Management of Gastric Gastrointestinal Stromal Tumors: Getting to the GIST of It. Gastrointest Endosc. 2020 Apr;91(4): 823-5. PMID: 32204815. (Editorial)
  3. **Vajravelu Ravy K**, Copelovitch Lawrence, Denburg Michelle R. Authors' reply to letter to the editor "Link between Inflammatory Bowel Disease and Risk of Chronic Kidney Disease." Clin Gastroenterol Hepatol. 2021 Sep;19(9): 1994. Epub 2020 Nov 20. PMID: 33227429. (Letter to the Editor)
  4. **Vajravelu Ravy K.** Commentary on: The Mortality Risk of Proton Pump Inhibitors in 1.9 Million US Seniors: An Extended Cox Survival Analysis. Elsevier PracticeUpdate. 2021 Jan; <https://www.practiceupdate.com/content/mortality-risk-of-ppis-in-19-million-us-seniors/112510/65/9/1>. (Commentary)
  5. **Vajravelu Ravy K.** Commentary on: No Associations between Regular Use of PPIs and Risk of All-Cause And Cause-Specific Mortality. Elsevier PracticeUpdate. 2021 Aug; <https://www.practiceupdate.com/content/no-associations-between-regular-use-of-ppis-and-risk-of-all-cause-and-cause-specific-mortality/121785/55/9/1>. (Commentary)
  6. **Vajravelu Ravy K** and Binion David G. Thiopurine Use in IBD Patients Associated with One Additional Case of Acute Myeloid Leukemia/Myelodysplastic Syndrome per about 7500 Patient-Years of Use. Evidence-Based GI. 2021 Oct;1(1); <https://gi.org/journals-publications/ebgi/acute-myeloid-leukemia-and-myelodysplastic-syndrome-with-ibd-and-thiopurines-impact-on-risk/> (Commentary) and [https://webfiles.gi.org/podcasts/ebgi/Ravy%20EBGI%20October\\_21%20Issue%201.mp3](https://webfiles.gi.org/podcasts/ebgi/Ravy%20EBGI%20October_21%20Issue%201.mp3) (Podcast).
  7. **Vajravelu Ravy K**, Shapiro Jordan M, El-Serag Hashem B. Authors' response to letter to the editor from Liu and Li. Clin Gastroenterol Hepatol. 2022 Sep;20(9): 2149. Epub 2021 Oct 29. PMID: 34715380. (Letter to the Editor)
  8. **Vajravelu Ravy K** and Schoen Robert E. Family Matters: Increased Risk of Colorectal Cancer among Individual with Family History of Polyps. Evidence-Based GI. 2022 February;2(2); [https://gi.org/journals-publications/ebgi/ravy\\_february2022/?vgo\\_ee=uC0bMM94HIYlqjyq1ZNdDQ%3D%3D](https://gi.org/journals-publications/ebgi/ravy_february2022/?vgo_ee=uC0bMM94HIYlqjyq1ZNdDQ%3D%3D) (Commentary) and <https://podcasts.apple.com/us/podcast/family-matters-increased-risk-of-colorectal-cancer/id1631612688?i=1000567646987> (Podcast).
  9. **Vajravelu Ravy K.** Ultraprocessed foods: Study finds link with Crohn's. GI & Hepatology News. 2022 June; 16(6). (Commentary)
  10. **Vajravelu Ravy K.** Does Choice of Anticoagulant Influence Risk of Gastrointestinal Bleeding? Evidence-Based GI. 2022 July; 2(5); [https://gi.org/journals-publications/ebgi/ravy\\_july2022/](https://gi.org/journals-publications/ebgi/ravy_july2022/) (Commentary) and [https://webfiles.gi.org/podcasts/ebgi/schoenfeld\\_ravy\\_jul2022.mp3](https://webfiles.gi.org/podcasts/ebgi/schoenfeld_ravy_jul2022.mp3) (Podcast).
  11. **Vajravelu Ravy K.** Reinvestigating the Lack of Association Between Proton Pump Inhibitor Use and Mortality by Accounting for Reverse Causation. Evidence-Based GI.

2022 Nov; 2(9); [https://gi.org/journals-publications/ebgi/ravy\\_nov2022/](https://gi.org/journals-publications/ebgi/ravy_nov2022/) (Commentary) and [https://webfiles.gi.org/podcasts/ebgi/phil\\_ravy\\_nov2022.mp3](https://webfiles.gi.org/podcasts/ebgi/phil_ravy_nov2022.mp3) (Podcast).

### **PUBLISHED ABSTRACTS (First or senior author only)**

1. **Vajravelu Ravy** and Katz Jeffrey. Biologic Therapy in The Treatment of Crohn's Disease of the Ileoanal Pouch. Am J Gastroenterol. 2009 Oct;104: S481.
2. **Vajravelu Ravy** and Katz Jeffrey. Concomitant Immunomodulator and Infliximab Therapy for Crohn's Disease: A Survey Of Physician Practice. Gastroenterology. 2010 May;138(5): S-702.
3. **Vajravelu Ravy** and Kaelber David. Venous Thromboembolism Risk and Anti-Tumor Necrosis Alpha Agents in Inflammatory Bowel Disease and Other Chronic Inflammatory Diseases. Am J Gastroenterol. 2012 Oct;107: S612.
4. **Vajravelu Ravy K**, Osterman Mark T, Aberra F, Lichtenstein Gary R, Lewis James, Scott Frank I. Predictors of Indeterminate QuantiFERON-TB Gold Testing In Inflammatory Bowel Disease and Impact on Clinical Outcomes. Gastroenterology. 2015 Apr;148(4): S-253.
5. **Vajravelu Ravy K**, Osterman Mark T, Aberra F, Roy Jason A, Lichtenstein Gary R, Mamtani Ronac, Goldberg David S, Lewis James, Scott Frank I. Predictors of Indeterminate QuantiFERON-TB Gold Testing in Inflammatory Bowel Disease. Pharmacoepidemiol Drug Saf. 2016 Aug;25(S3): 300-1.
6. **Vajravelu Ravy K**, Mamtani Ronac, Scott Frank I, Li Hongzhe, Lewis James D. Medication-Class Enrichment Analysis: A Novel Technique to Identify Pharmacologic Exposures Associated with Diseases. Pharmacoepidemiol Drug Saf. 2017 Aug(S2);26: 525-7.
7. **Vajravelu Ravy K**, Scott Frank I, Mamtani Ronac, Lewis James D. Incidence of and Risk Factors for Recurrent Diverticular Bleeding Among Patients with a Prior Episode of Diverticular Bleeding. Gastroenterology. 2018 May;154(6): S-220-1.
8. **Vajravelu Ravy K**, Scott Frank I, Mamtani Ronac, Lewis James D. Platelet Aggregation Inhibitors Use and Risk of Recurrent Diverticular Bleeding Among Patients with a Prior Episode of Diverticular Bleeding. Pharmacoepidemiol Drug Saf. 2018 Aug;27(S2): 68.
9. **Vajravelu Ravy K**, Scott Frank I, Mamtani Ronac, Lewis James D. Comparison of Presenting Diagnoses and Symptoms in Patients With Young-Versus Older-Onset Colorectal Cancer. Gastroenterology. 2019 May;156(6): S-816.
10. **Vajravelu Ravy K**, Copelovitch Larry, Osterman Mark T, Scott Frank I, Mamtani Ronac, Lewis James D, Denburg Michelle R. Relative Hazard of Chronic Kidney Disease Among Patients with Inflammatory Bowel Disease Varies by Age. Gastroenterology. 2019 May;156(6): S-858.

11. **Vajravelu Ravy K**, Shapiro Jordan M, Thanawala Shivani U, Lewis James D, El-Serag Hashem B. Risk of Post-Colonoscopy Irritable Bowel Syndrome in Patients with and without Antibiotic Exposure. Gastroenterology. 2020 May;158(6): S-75-6.
12. **Vajravelu Ravy K**, Kolb Jennifer M, Thanawala Shivani U, Scott Frank I, Han Samuel, Singal Amit G, Katzka David A, Falk Gary W, Wani Sachin B. Rate and Correlates of Prevalent, Interval, and Incident Esophageal Cancer (EC) after Diagnosis of Barrett's Esophagus (BE): A Population-Based Cohort Study. Gastroenterology. 2020 May;158(6): S-308.
13. Golla Meghana, Segura Abraham, Gerson James N, Mahmud Nadim, **Vajravelu Ravy K**. National Trends of Gastrointestinal Endoscopy after Hematopoietic Cell Transplantation in the United States, 2012–2016. Gastrointest Endosc. 2020 Jun;91(6): AB84.
14. Segura Abraham, Dalal Rahul S, Gerson James N, Lewis James D, **Vajravelu Ravy K**. Risk of Sepsis in Hematopoietic Cell Transplant Recipients Undergoing Gastrointestinal Endoscopy: A Matched Retrospective Cohort Study. Gastrointest Endosc. 2020 Jun;91(6) AB83.
15. **Vajravelu Ravy K**, Kolb Jennifer, Scott Frank I, Tavakkoli Anna, Singal Amit G, Katzka David A, Falk Gary W, Wani Sachin. Patient Factors Associated with Gastroesophageal Reflux Disease Diagnostic Evaluation Strategies: A Retrospective Cohort Study. Am J Gastroenterol. 2021 Oct;116: S171.
16. **Vajravelu Ravy K**, Byerly Amy R, Gellad Walid F, Lewis James D. Identification of Unrecognized Associations between Medications and Gastrointestinal Bleeding by Screening Large Administrative Health Data. Gastroenterology. 2023 May;164(6): S-283.
17. Giza Richard J, Byerly Amy R, Atieh Jessica, Levinthal David J\*, **Vajravelu Ravy K\***. Estimated Trends of Inpatient Microscopic Colitis from 2012 – 2020 Using Regression Discontinuity: A Cross-Sectional Analysis of Population-Representative Hospitalizations in the United States. Gastroenterology. 2023 May;164(6): S-284.
18. Frank David A, Johnson Amber E, Hausman Leslie R M, Gellad Walid F, Robert Eric T, **Vajravelu Ravy K**. Disparities in Guideline-Recommended Pharmacotherapy for Prevention of Atherosclerotic Cardiovascular Disease by Race, Ethnicity, and Sex: A Nationally Representative Cross-Sectional Analysis of Adults in the United States. Pharmacoepidemiol Drug Saf. 2023 Oct;32(S1): 125-6.
19. Millenson Marisa E, Callaway Kim Katherine, Gellad Walid F, **Vajravelu Ravy K**. Misclassification of Metformin and Insulin Exposure Among Individuals with Type 2 Diabetes Using Integrated Electronic Health Record and Pharmacy Claims Data. 2023 Oct;32(S1): 418-9.
20. **Vajravelu Ravy K**, Byerly Amy R, Gellad Walid F, Lewis James D. Identification of Unrecognized Associations between Medications and Gastrointestinal Bleeding by Screening Large Administrative Health Data. 2023 Oct;32(S1): 566-7.

21. Vajravelu Mary Ellen, Chu Patricia Y, Frank David A, **Vajravelu Ravy K**. Projected Impact of Weight-Loss Medication Use on Racial-Ethnic Disparities in Adolescent Obesity. Pharmacoepidemiol Drug Saf. 2023 Oct(S1);32: 38-9.

**ABSTRACTS (First or senior author national/international research presentations only)**

1. **Vajravelu Ravy** and Katz Jeffrey. Concomitant Immunomodulator and Infliximab Therapy for Crohn's Disease: A Survey Of Physician Practice. Digestive Disease Week 2010, New Orleans, LA. (Poster)
2. **Vajravelu Ravy K** and Donskey Curtis J. Evaluation of Stethoscopes as Vectors of Clostridium difficile and Methicillin-Resistant Staphylococcus aureus (MRSA). Interscience Conference On Antimicrobial Agents And Chemotherapy 2010, Boston, MA. (Poster)
3. **Vajravelu Ravy** and Kaelber David. Venous Thromboembolism Risk and Anti-Tumor Necrosis Alpha Agents in Inflammatory Bowel Disease and Other Chronic Inflammatory Diseases. American College of Gastroenterology 2012, Las Vegas, NV. (Plenary oral presentation)
4. **Vajravelu Ravy K**, Osterman Mark T, Aberra F, Lichtenstein Gary R, Lewis James, Scott Frank I. Predictors of Indeterminate QuantiFERON-TB Gold Testing in Inflammatory Bowel Disease and Impact on Clinical Outcomes. Digestive Disease Week 2015, Washington, DC. (Poster)
5. **Vajravelu Ravy K**, Osterman Mark T, Aberra F, Roy Jason A, Lichtenstein Gary R, Mamtani Ronac, Goldberg David S, Lewis James, Scott Frank I. Predictors of Indeterminate QuantiFERON-TB Gold Testing in Inflammatory Bowel Disease. International Conference on Pharmacoepidemiology & Therapeutic Risk Management 2016, Dublin, Ireland. (Poster)
6. **Vajravelu Ravy K**, Mamtani Ronac, Scott Frank I, Li Hongzhe, Lewis James D. Medication-Class Enrichment Analysis: A Novel Technique to Identify Pharmacologic Exposures Associated with Diseases. International Conference on Pharmacoepidemiology & Therapeutic Risk Management 2017, Montreal, Canada. (Poster)
7. **Vajravelu Ravy K**, Scott Frank I, Mamtani Ronac, Lewis James D. Incidence of and Risk Factors For Recurrent Diverticular Bleeding Among Patients with a Prior Episode of Diverticular Bleeding. Digestive Disease Week 2018, Washington, DC. (Oral presentation)
8. **Vajravelu Ravy K**, Scott Frank I, Mamtani Ronac, Lewis James D. Platelet Aggregation Inhibitors Use and Risk of Recurrent Diverticular Bleeding Among Patients with a Prior Episode of Diverticular Bleeding. International Conference on Pharmacoepidemiology & Therapeutic Risk Management 2018, Prague, Czech Republic. (Poster)
9. **Vajravelu Ravy K**, Scott Frank I, Mamtani Ronac, Lewis James D. Comparison Of Presenting Diagnoses and Symptoms in Patients with Young- versus Older-Onset

- Colorectal Cancer. Digestive Disease Week 2019, San Diego, CA. (Poster of Distinction)
10. **Vajravelu Ravy K**, Copelovitch Larry, Osterman Mark T, Scott Frank I, Mamtani Ronac, Lewis James D, Denburg Michelle R. Relative Hazard of Chronic Kidney Disease Among Patients with Inflammatory Bowel Disease Varies by Age. Digestive Disease Week 2019, San Diego, CA. (Poster)
  11. **Vajravelu Ravy K**, Shapiro Jordan M, Thanawala Shivani U, Lewis James D, El-Serag Hashem B. Risk of Post-Colonoscopy Irritable Bowel Syndrome in Patients with and without Antibiotic Exposure. Digestive Disease Week 2020 (Cancelled due to COVID-19 pandemic). (Oral presentation)
  12. Golla Meghana, Segura Abraham, Gerson James N, Mahmud Nadim, **Vajravelu Ravy K**. National Trends of Gastrointestinal Endoscopy after Hematopoietic Cell Transplantation in the United States, 2012–2016. Digestive Disease Week 2020 (Cancelled due to COVID-19 pandemic). (Oral presentation)
  13. Segura Abraham, Dalal Rahul S, Gerson James N, Lewis James D, **Vajravelu Ravy K**. Risk of Sepsis in Hematopoietic Cell Transplant Recipients Undergoing Gastrointestinal Endoscopy: A Matched Retrospective Cohort Study. Digestive Disease Week 2020 (Cancelled due to COVID-19 pandemic). (Oral presentation)
  14. **Vajravelu Ravy K**, Kolb Jennifer, Scott Frank I, Tavakkoli Anna, Singal Amit G, Katzka David A, Falk Gary W, Wani Sachin. Patient Factors Associated with Gastroesophageal Reflux Disease Diagnostic Evaluation Strategies: A Retrospective Cohort Study. American College of Gastroenterology 2021, Las Vegas, NV. (Poster)
  15. **Vajravelu Ravy K**, Byerly Amy R, Gellad Walid F, Lewis James D. Identification of Unrecognized Associations between Medications and Gastrointestinal Bleeding by Screening Large Administrative Health Data. Digestive Disease Week 2023, Chicago, IL (Poster)
  16. Giza Richard J, Byerly Amy R, Atieh Jessica, Levinthal David J\*, **Vajravelu Ravy K\***. Estimated Trends of Inpatient Microscopic Colitis from 2012 – 2020 Using Regression Discontinuity: A Cross-Sectional Analysis of Population-Representative Hospitalizations in the United States. Digestive Disease Week 2023, Chicago, IL (Poster)
  17. Frank David A, Johnson Amber E, Hausman Leslie R M, Gellad Walid F, Robert Eric T, **Vajravelu Ravy K**. Disparities in Guideline-Recommended Pharmacotherapy for Prevention of Atherosclerotic Cardiovascular Disease by Race, Ethnicity, and Sex: A Nationally Representative Cross-Sectional Analysis of Adults in the United States. International Conference on Pharmacoepidemiology & Therapeutic Risk Management 2023, Halifax, Canada. (Spotlight poster presentation)
  18. Millenson Marisa E, Callaway Kim Katherine, Gellad Walid F, **Vajravelu Ravy K**. Misclassification of Metformin and Insulin Exposure Among Individuals with Type 2 Diabetes Using Integrated Electronic Health Record and Pharmacy Claims Data. International Conference on Pharmacoepidemiology & Therapeutic Risk Management 2023, Halifax, Canada. (Poster)

19. **Vajravelu Ravy K**, Byerly Amy R, Gellad Walid F, Lewis James D. Identification of Unrecognized Associations between Medications and Gastrointestinal Bleeding by Screening Large Administrative Health Data. International Conference on Pharmacoepidemiology & Therapeutic Risk Management 2023, Halifax, Canada. (Poster)
20. Vajravelu Mary Ellen, Chu Patricia Y, Frank David A, **Vajravelu Ravy K**. Projected Impact of Weight-Loss Medication Use on Racial-Ethnic Disparities in Adolescent Obesity. International Conference on Pharmacoepidemiology & Therapeutic Risk Management 2023, Halifax, Canada. (Oral presentation)
21. Sun Yujie, Kingsley Michael J, Thompson Christopher, Wu Richard M, **Vajravelu Ravy K\***, Khalid Asif\*. Impact of the 2020 U.S. Multisociety Task Force Guidelines for Surveillance of 1 – 2 Small Tubular Adenomas on Endoscopy Center Capacity in a Large, Regional Healthcare System. Digestive Diseases Week 2024, Washington D.C. (Poster, *upcoming*)
22. Villars Jordan A, Anderson Timothy S, **Vajravelu Ravy K**. High Rates of Inappropriate Proton-Pump Inhibitor Persistence Among Patients with a History of Peptic Ulcer Disease without Alternative Indications: An Overlooked Opportunity for Deprescribing. Digestive Diseases Week 2024, Washington D.C. (Poster, *upcoming*)

#### **MEDIA (Research or clinical interviews)**

1. Antibiotic use may increase IBS outcomes after colonoscopy. *Healio*. 7 Sep 2021, <https://www.healio.com/news/gastroenterology/20210907/antibiotic-use-may-increase-ibs-outcomes-after-colonoscopy>
2. Dzurenda, Ava. Mistrust, Bias May Cause Disparities in Cholesterol-Lowering Medication Use. *Inside Life Changing Medicine*. 26 Jul 2023, <https://inside.upmc.com/mistrust-bias-may-cause-disparities-in-cholesterol-lowering-medication-use/>
3. Mozes, Alan. Women, minorities less likely to get statins to prevent heart disease. *HealthDay News* (syndicated in *U.S. News and World Report*, *Drugs.com*, *Hola Doctor*, *Yahoo! News*, *UPI*, and others). 27 Jul 2023, <https://consumer.healthday.com/statins-2662301089.html>
4. Santa Cruz, Jamie. Statins: Reducing Racial Disparities. *Today's Geriatric Medicine*. 2024 Jan/Feb;17(1): 14, <https://www.todaysgeriatricmedicine.com/archive/JF24p14.shtml>

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### **PROFESSIONAL ACTIVITIES: TEACHING**

#### **MEDICAL STUDENT TEACHING**

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Feb 2020 Guest lecturer. Perelman School of Medicine, University of Pennsylvania. Frontiers in Medicine 524: History of colorectal cancer screening.

### **GRADUATE STUDENT TEACHING**

2019 – 2023 Guest lecturer. Perelman School of Medicine, University of Pennsylvania. Advanced Epidemiology (EPID 640): Prediction modeling and machine learning.

### **RESIDENT TEACHING**

Nov 2016 Guest expert. Hospital of the University of Pennsylvania Internal Medicine Residency Noon Report: Rectal bleeding and hepatitis.

May 2019 Guest expert. Hospital of the University of Pennsylvania Internal Medicine Residency Noon Report: Hereditary colon cancer.

May 2020 Guest expert. Hospital of the University of Pennsylvania Internal Medicine Residency Noon Report: Gastrointestinal endoscopy for patients with neutropenia.

2020 – 2021 Guest lecturer. Hospital of the University of Pennsylvania Internal Medicine Subspecialty Lecture Series: Gastroenterology core literature. Highest rated in series for FY21.

### **FELLOW TEACHING**

2019 – 2021 Preceptor. University of Pennsylvania Gastroenterology Fellows Continuity Clinic. One of two preceptors for FY19 – FY21.

2019 – 2021 Teaching attending. University of Pennsylvania Gastroenterology Fellowship: Gastrointestinal endoscopy and inpatient luminal gastroenterology consults.

2020 – 2021 Guest lecturer. University of Pennsylvania Gastroenterology Fellows Core Lecture Series: Handling common outpatient gastroenterology results.

Dec 2020 Guest lecturer. University of Pennsylvania Gastroenterology Fellows Core Lecture Series: Colorectal cancer screening and polyp surveillance.

2021 – present Facilitator. UPMC Gastroenterology Fellows Journal Club: Gastrointestinal Cancers.

Jan 2023 Guest lecturer. UPMC Gastroenterology Fellows Core Lecture Series: Fundamentals of Cohort Studies.



Apr 2023      Guest lecturer. UPMC Gastroenterology Fellows Core Lecture Series: Fundamentals of Case-Control Studies.

## **CURRICULUM DEVELOPMENT/TEACHING PRODUCTS/MEDIA PRODUCTS**

2019 – 2020      University of Pennsylvania Gastroenterology Fellowship Outpatient Curriculum: Developed and delivered 40-week small group, chalk talk curriculum.

## **MENTORING**

2018 – 2019      Rahul S. Dalal, MD  
Hospitalist Scholar, Section of Hospital Medicine, Division of General Internal Medicine, University of Pennsylvania  
Role: Mentored epidemiology study design, data analysis, Stata programming, and manuscript writing in relation to two research projects (Hospitalization outcomes for inflammatory bowel disease in teaching vs. non-teaching hospitals and Association of endoscopy with subsequent sepsis among neutropenic patients). Mentee successfully published a first-author manuscript: "Hospitalization outcomes for inflammatory bowel disease in teaching vs nonteaching hospitals," *Inflamm Bowel Dis* 2019, PMID: 31039244.  
Subsequent: Completed clinical gastroenterology fellowship and post-doctoral T32 research at Brigham and Women's Hospital, Boston, MA. Instructor of Medicine at Brigham and Women's Hospital, Boston, MA.

2018 – 2021      Abraham Segura, MD  
Internal Medicine Resident, Hospital of the University of Pennsylvania then Hospitalist Scholar, Section of Hospital Medicine, Division of General Internal Medicine, University of Pennsylvania  
Role: Mentored epidemiology study design, data analysis, Stata programming, and manuscript writing in relation to the research project, "Association of endoscopy with subsequent sepsis among neutropenic patients." Mentee achieved an oral presentation at Digestive Disease Week 2020 and published a first-author manuscript: "Endoscopy is not associated with infectious adverse events after hematopoietic cell transplantation: a retrospective cohort study," *Dig Dis Sci* 2021, PMID: 34050445.  
Subsequent: Clinical Gastroenterology Fellow and T32 Research Fellow, University of Pennsylvania, Philadelphia, PA.

2019      Janeline Wong  
Undergraduate student from University of Southern California Viterbi School of Engineering in the University of Pennsylvania Undergraduate Clinical Scholars Program  
Role: Summer research mentor. Mentored epidemiology study design, data analysis, and Stata programming in relation to the research project, "Impact of ICD-10 transition on calculations of incidence using administrative data." Based on experience, mentee decided to apply to medical school instead of

Biomedical Engineering PhD program.  
Subsequent: Matriculated to Virginia Tech College of Medicine in fall 2022

- 2019 – 2020 Meghana Golla, BS  
Fourth-year medical student at Perelman School of Medicine, University of Pennsylvania  
Role: Mentored epidemiology study design, data analysis, and Stata programming in relation to the research project, "Temporal trends in endoscopy among patients undergoing hematopoietic cell transplant." Mentee achieved an oral presentation at Digestive Disease Week 2020 to present this research.  
Subsequent: Internal Medicine Resident, Vanderbilt University Medical Center, Nashville, TN; Gastroenterology fellowship at Vanderbilt University Medical Center beginning 2023.
- 2022 – 2023 David A. Frank, BA  
Master of Public Health candidate at Graduate School of Public Health, University of Pittsburgh  
Role: Primary research mentor for graduate practicum and Master's Essay Reader. Mentored epidemiology study design and data analysis in relation to the research project "Disparities in Guideline-Recommended Pharmacotherapy for Prevention of Atherosclerotic Cardiovascular Disease by Race, Ethnicity, and Sex: A Nationally Representative Cross-Sectional Analysis of Adults in the United States." Mentee achieved first author poster presentation at the International Conference on Pharmacoepidemiology & Therapeutic Risk Management 2023 in Halifax, Canada.  
Subsequent: Master of Public Health graduate, Data Analyst at Center for Health Equity Research and Promotion at VA Pittsburgh Healthcare System
- 2022 – 2023 Marisa E. Millenson, ScM  
MD-PhD candidate, University of Pittsburgh/Carnegie Mellon Medical Scientist Training Program  
Role: Mentoring epidemiology study design and data analysis in relation to "Medication exposure misclassification in the electronic health record: Estimating and predicting time to fill using integrated electronic health record and pharmacy claims data." Mentee received University of Pittsburgh Digestive Diseases T-32 pre-doctoral fellowship.
- 2022 – present Richard (Richie) J. Giza, MD  
Internal Medicine Resident, UPMC Internal Medicine Residency  
Role: Primary research mentor. Mentoring study design and conduct for "Estimated trends of inpatient microscopic colitis from 2012 – 2020 using regression discontinuity: A cross-sectional analysis of population-representative hospitalizations in the United States." Mentee achieved first-author poster presentation at Digestive Disease Week 2023 in Chicago, IL. Supervised mentee for study design and conduct for his first-author manuscript, "Suboptimal Performance of Microscopic Colitis Diagnosis Codes: A Bottleneck for Epidemiologic Insights" (under review).

- 2023 – present Yujie (Richie) Sun, MD  
Gastroenterology Fellow, UPMC Gastroenterology Fellowship  
Role: Primary research mentor. Mentoring study design and conduct for “Reclassification of colorectal polyp surveillance intervals at VA Pittsburgh Healthcare System.”
- 2023 – present Jordan A. Villars, MD MPA  
Internal Medicine Resident, UPMC Internal Medicine Residency  
Role: Primary research mentor. Mentoring study design and conduct for “Quantifying appropriate use of proton-pump inhibitors after peptic ulcer disease.”
- 2023 – present Omar Al ta’ani, MD  
Internal Medicine Resident, Allegheny Health Network Internal Medicine Residency  
Role: Primary research mentor. Mentoring study design and conduct for “Characteristics of Iron Deficiency Anemia in the United States: Implications for Guideline-Recommended Evaluation.”

## RESEARCH

### CURRENT GRANT SUPPORT

<u>Award #</u>	<u>Title</u>	<u>Role</u>	<u>Dates</u>	<u>Amount</u>
K08-DK119475	Evaluation Of Multiple Medication Exposures Concurrently Using a Novel Algorithm	PI (50%, 6.0 months to Pitt)	07/2019 – 11/2024	\$841,040
R01-DK135876	Determining Medications Associated with Drug-Induced Pancreatic Injury through Novel Pharmacoepidemiology Techniques that Assess Causation	PI (32%, 3.8 months to Pitt)	07/2023 – 04/2027	\$1,585,546
I01HX003610	Project OASIS: Optimizing Approaches to Select Implementation Strategies	Co-I (1.5 months to VAPHS)  PI: Rogal and Chinman	10/2023 – 09/2027	\$1,200,000

### PENDING GRANT SUPPORT

<u>Award #</u>	<u>Title</u>	<u>Role</u>	<u>Dates</u>	<u>Amount</u>
R01-DK141692 (Submitted 02/05/24)	Preventing gallstone pancreatitis by advancing real-world data research methodology, predicting risk, and identifying potential chemopreventative therapies	PI (50%, 6.0 months)	04/2024 – 03/2028	\$2,334,011

### PRIOR GRANT SUPPORT

<u>Award #</u>	<u>Title</u>	<u>Role</u>	<u>Dates</u>	<u>Amount</u>
T32-DK007066	Training Program in Gastrointestinal Science	Trainee; PI: Anil K. Rustgi	07/2016 – 06/2019	
ACG-CR-005-2020	Study of Compliance, Practice patterns, and Barriers REgarding Established National Screening Programs for Barrett's Esophagus (SCREEN-BE)	Co-PI (2%, 0.24 months)	07/2020 – 06/2021	\$50,000

### OTHER RESEARCH-RELATED ACTIVITIES

#### Editorial

2017 – 2020	Editorial Board Fellow. <i>Pharmacoepidemiology and Drug Safety</i>
2020 – present	Associate Editor. <i>Pharmacoepidemiology and Drug Safety</i>
2021 – 2022	Associate Editor. <i>Evidence-Based GI</i>

#### Reviewer

2015 – present	<i>Inflammatory Bowel Diseases</i>
2016 – present	<i>Alimentary Pharmacology &amp; Therapeutics</i>
2018 – present	<i>Annals of Internal Medicine</i>
2019 – present	<i>Applied Clinical Informatics</i>
2019 – present	<i>Applied Clinical Informatics Open</i>
2019 – present	<i>Clinical Gastroenterology and Hepatology</i>

- 2019 – present *Digestive Diseases & Sciences*
- 2020 – present *The BMJ*
- 2020 – present *Gut*
- 2021 – present *Clinical and Translational Gastroenterology*
- 2023 – present *Techniques and Innovations in Gastrointestinal Endoscopy*
- 2023 – present *American Journal of Preventative Medicine*

### **Expert commenter**

- 2021 – present Elsevier *PracticeUpdate*
- 2022 – present *GI & Hepatology News*

### **CURRENT RESEARCH INTERESTS**

My long-term research goal is to develop precision medicine tools that inform therapeutic decision making in gastroenterology by integrating insights from across biomedical science. I am pursuing this goal through three complementary objectives:

- (1) To design biostatistical methods to efficiently analyze high-dimensional clinical datasets
- (2) To build epidemiologic models of gastroenterology conditions such as colorectal cancer, Barrett's esophagus, and gastroesophageal reflux
- (3) To develop informatics approaches to integrate diverse biomedical data for clinical prediction.

By completing these objectives, my multidisciplinary research team and I aim to develop algorithms to provide gastroenterology patients and providers with precision screening and therapeutics recommendations.

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### **INVITED SEMINARS AND LECTURESHIPS**

#### **LOCAL**

- May 2019      Relative Hazard of Chronic Kidney Disease among Patients with Inflammatory Bowel Disease Varies by Age. Renal Electrolyte and Hypertension Division, University of Pennsylvania and Division of Nephrology, The Children's Hospital of Philadelphia Research Symposium. Philadelphia, PA.

- Jun 2020 Medication Class Enrichment Analysis. Center for Causal Inference Summer Institute 2020, Philadelphia, PA. (Cancelled due to COVID-19 pandemic).
- Oct 2020 Methods Bootcamp: Introduction to Machine Learning. International Society for Pharmacoepidemiology University of Pennsylvania Student Chapter. Philadelphia, PA.
- Dec 2020 Characteristics of Barrett's Esophagus Screening and Diagnosis in the United States. University of Pennsylvania, Division of Gastroenterology and Hepatology Grand Rounds. Philadelphia, PA.
- Dec 2020 Risk for Post-Colonoscopy Irritable Bowel Syndrome in Patients with and without Antibiotic Exposure. University of Pennsylvania NIDDK P30 Center for Molecular Studies in Digestive and Liver Diseases Research Seminar. Philadelphia, PA.
- Jan 2021 The Rise in Early Onset Colorectal Cancer: Biology, Behavior, or Bias? University of Pennsylvania Real World Evidence in Gastrointestinal and Liver Diseases Conference. Philadelphia, PA.
- Oct 2021 Observational Data Analysis Techniques for Gastroenterology Research. University of Pittsburgh Division of Gastroenterology, Hepatology and Nutrition Research Rounds. Pittsburgh, PA.
- Jan 2022 Emerging Techniques for Pharmacoepidemiology Research. Center for Research on Health Care Health Services Research Seminar. University of Pittsburgh Division of General Internal Medicine. Pittsburgh, PA.
- Oct 2022 Mentee presentations: Patient Factors Associated with Guideline-Discordant Pharmacotherapy for Atherosclerotic Cardiovascular Disease by David A. Frank and Misclassification of Pharmacy Claims by Over-the-Counter Medications by Marisa E. Millenson. University of Pittsburgh Center for Pharmaceutical Policy and Prescribing Seminar. Pittsburgh, PA.

**NATIONAL**

- Mar 2020 The Road to Precision: A Framework for Integrating Medical Big Data. University of Michigan Division of Gastroenterology and Hepatology. Ann Arbor, MI.
- Jul 2020 The Road to Precision: A Framework for Integrating Medical Big Data. Rutgers School of Public Health. Piscataway, NJ.
- Jan 2021 The Road to Precision: A Framework for Integrating Medical Big Data in Gastroenterology. Yale Section of Digestive Diseases Research Seminar. New Haven, CT.

- Feb 2021      The Road to Precision: A Framework for Integrating Medical Big Data in Gastroenterology. University of Pittsburgh Division of Gastroenterology, Hepatology and Nutrition Grand Rounds. Pittsburgh, PA.
- Feb 2021      The Road to Precision: A Framework for Integrating Medical Big Data in Gastroenterology. University of Colorado GI & Liver Innate Immune Programs Research Seminar. Aurora, CO.
- Mar 2022      Emerging Signal Detection and Enrichment Techniques for Pharmacoepidemiology and Pharmacovigilance. Veterans Health Administration Pharmacy Benefits Management Services—VA Center For Medication Safety. Virtual seminar.
- Oct 2022      More Than a Gut Feeling: Thinking Like a Gastroenterologist for Clinical Research. Zucker School of Medicine at Hofstra University/Northwell Health Division of Gastroenterology Grand Rounds. Hempstead, NY.
- Dec 2022      Prediction Modeling and Machine Learning. International Society for Pharmacoepidemiology Student Chapters Methods Bootcamp: Rutgers University, University of Florida, University of Pennsylvania, and University of Pittsburgh. Virtual seminar.

## SERVICE

### UNIVERSITY

#### University of Pennsylvania

- 2016 – 2020      Gastroenterology Fellowship Selection Committee
- 2018              Internal Medicine Categorical Residency Selection interviewing
- 2018              Division of Gastroenterology Fellowship Curriculum Redesign Committee

#### University of Pittsburgh

- 2021 – present   Internal Medicine Categorical Residency Selection interviewing
- 2021 – present   Gastroenterology Fellowship Selection interviewing
- 2022 – present   Internal Medicine Research Pathway Residency Selection interviewing
- 2022 – present   Department of Medicine Research Day Planning Committee
- 2022 – present   Undergraduate Pre-Health Student Mentoring program
- 2022 – present   Bioengineering Senior Design Project clinical advising

2023 – present Department of Medicine Research Day abstract and presentation judge

### **LOCAL**

2020 – 2021 COVID Advisory Board. The Aspen Grove School. Philadelphia, PA.

### **NATIONAL**

2022, 2023 Abstract reviewer. Performance Metrics, Process Improvement, Quality Improvement and Implementation. Digestive Diseases Week 2023. Chicago, IL.

2023 Oral Presentation Research Forum Moderator. American Gastroenterology Association—Optimizing Your GI Practice: Guidelines, Quality and Delivery. Digestive Diseases Week 2023, Chicago, IL

2023 – present Councilor. American Gastroenterology Association Institute Council—Clinical Practice Section

### **INTERNATIONAL**

2018 – 2019 Local Host Committee. International Conference on Pharmacoepidemiology & Therapeutic Risk Management 2019. Philadelphia, PA.