

2024



KAISER PERMANENTE®
DIVISION OF RESEARCH

Biostatistical Consulting Unit

Annual
Report

Connect with Us!



@KPBSCU



@KPBSCU



@KPBSCU.bsky.social



Scan here to visit our Website!

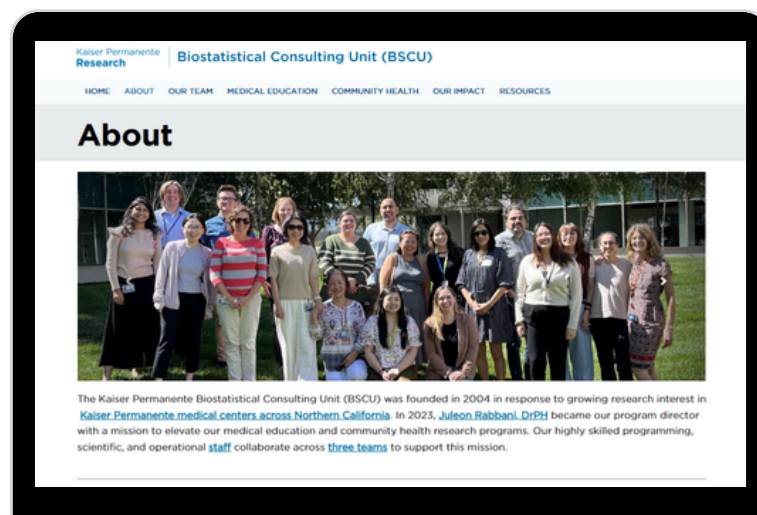


Table of Contents

Director's Welcome	1
Impact by the Numbers	2
Graduate Medical Education (GME)	3
Community Health (CH)	29
Additional Research Sponsors	42
2024 Financial Report	44
Our Team	45



GENERATING IDEAS THAT DRIVE OUR LEARNING HEALTH SYSTEM FORWARD



I am pleased to highlight the significant contributions of the Kaiser Permanente Northern California (KPNC) Division of Research (DOR) Biostatistical Consulting Unit (BSCU) in 2024. Operating on over \$5.6 million to support KPNC Medical Education and Community Health research programs, the BSCU played a vital role in implementing more than 425 scholarly projects.

Our clinician-driven work advanced useful ideas for our learning health system, such as evaluating new treatments, exploring the impact of clinical interventions and identifying healthcare disparities. Projects also highlighted the need for personalized and targeted approaches to care and the use of technology and advanced analytics to improve care.

Investigators produced over 100 scholarly products across 18 clinical areas. They published 38 manuscripts in several high impact peer-reviewed journals, such as the American Journal of Preventive Medicine, the Journal of the American Heart Association, Pediatrics, and JAMA Network Open. They additionally produced 73 presentations at several high-profile conferences, such as the American College of Gastroenterology and the American College of Cardiology annual meetings.

In response to significant demand from our medical centers, our sponsors boosted their investment in clinician-driven research by nearly 40% in 2024. This allowed us to build staffing levels to match current needs, strengthen pathways to support medical education research, and modernize our communication efforts to more effectively share our impact. We also celebrated Dr. Tracy Lieu as she stepped down as our Division of Research director and became our regional Physician Advisor for Medical Education Research. I am excited by our path ahead – we are well positioned, with strong support from our leaders and collaborators, to elevate the impact of our research programs in 2025.

Juleon Rabbani, DrPH

Juleon Rabbani, DrPH

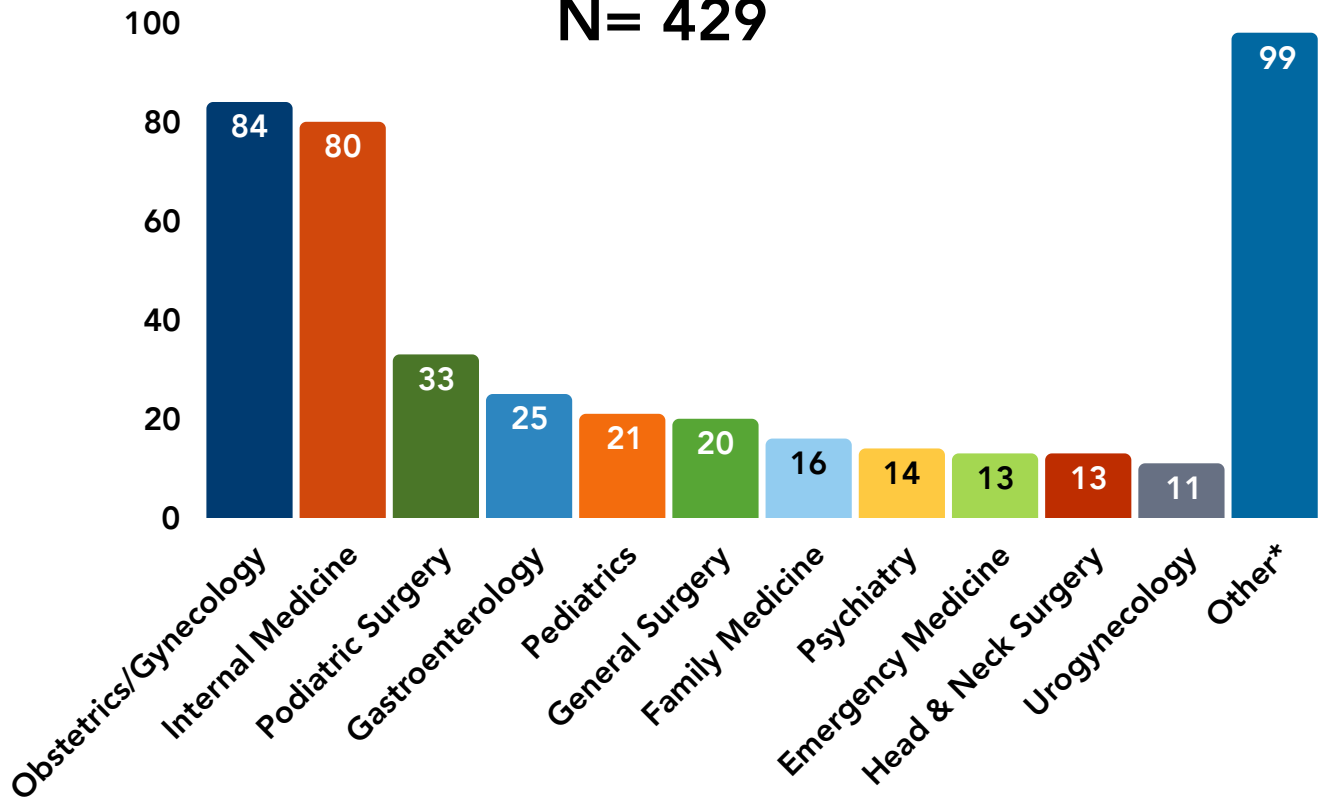
Director, Biostatistical Consulting Unit

All Research Sponsors

Impact by the Numbers

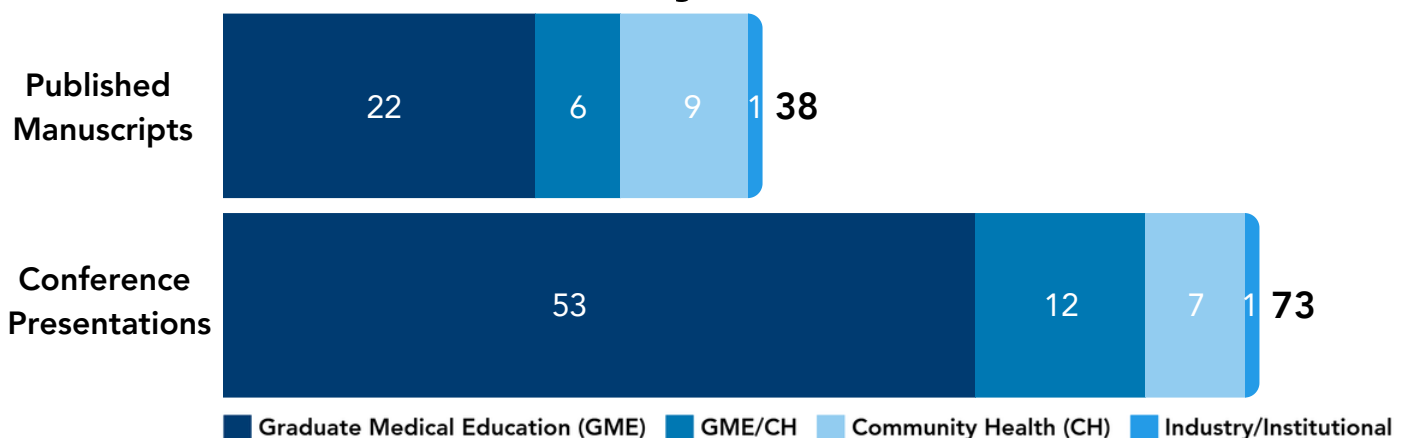
2024 Projects Supported by Clinical Specialty

N= 429



*The BSCU supported 99 additional projects across 33 other clinical specialties in 2024, such as Cardiovascular Disease, Ophthalmology, Hematology Oncology, Dermatology, Neurology, Pediatric Hospital Medicine, Women's Health, Nephrology, Oncology, and Vascular Surgery.

2024 Total Scholarly Products N=111



Graduate Medical Education

The BSCU is the primary research consulting resource for Kaiser Permanente Northern California Graduate Medical Education (GME) programs. In partnership with our clinicians, research project managers and faculty, we support graduate medical education programs by providing full spectrum research and quality improvement (QI) support.

What our GME Leaders are Saying:



Ted O'Connell, MD
Director of Medical
Education,
KPNC

The BSCU provides high-quality consultations as well as statistical and research support to our residency and fellowship programs, supporting our residents, fellows, and faculty in pursuing scholarly activity. This results in over 300 scholarly projects annually, leading to publication in peer-reviewed journals and presentations at high-impact conferences. Ultimately, this disseminates knowledge, improves patient care, and supports the professional development of our residents and fellows.

The BSCU is an invaluable partner in advancing research excellence for KP Northern California GME residents, fellows, and faculty. Their exceptional expertise in study design, data analysis, and methodological rigor, combined with a commitment to strategic collaboration, empowers researchers to navigate complex data areas that are both scientifically sound and impactful. The BSCU support is instrumental in fostering high-quality, evidence-based advancements in healthcare and medical education.



Theresa Azevedo-Rousso, MPA
Regional Senior
Director/DIO,
UME/GME, KPNC



Tracy Lieu, MD, MPH
Physician Advisor,
Medical Education
Research

Our BSCU is an exceptional resource for residents, fellows, and their mentors. BSCU analysts and project coordinators contribute a wealth of expertise, enabling our learners and faculty in GME to design and complete top-quality research and evaluation projects. Few, if any, other GME programs in the country have such a forward-thinking design to support research within a learning health care system.

Graduate Medical Education

Research Project Managers

GME Research Project Managers (RPM) partner with clinical faculty to direct the scholarly activities of our medical education programs across Kaiser Permanente Northern California. They are key connectors between our medical center-based physician training programs and our regional Division of Research.



Aida Shirazi, PhD, MS, RPh.
San Francisco



Miranda R. Weintraub, PhD, MPH
Oakland



Brooke Harris, PhD
San Jose



Nirmala Ramalingam, MPP
Oakland



Cynthia Triplett, MPH, MA
Santa Clara



Stacie Lloyd, PhD
Sacramento



Kat Dang, MS, MAS
Napa Solano



Shannon McDermott, PhD
Santa Rosa

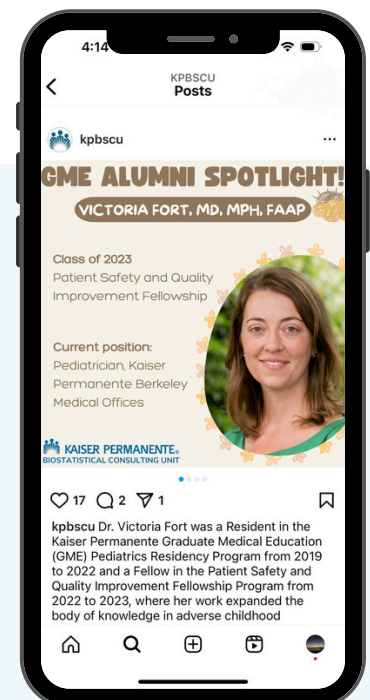


Lorlelei Lee-Haynes, MPH
Modesto

An RPM's perspective on supporting a recent GME graduate:

*It was a privilege to support **Dr. Victoria Fort** throughout her journey—from her time as a pediatric resident to her role as a patient safety fellow. Her dedication to research and improvement of patient care were truly inspiring. Watching her grow as a researcher, develop critical insights, and contribute meaningful work to the field was rewarding. She will no doubt continue to make a significant impact in pediatric healthcare, and I look forward to seeing all that she accomplishes in the future.*

- Miranda Ritterman Weintraub, PhD, MPH

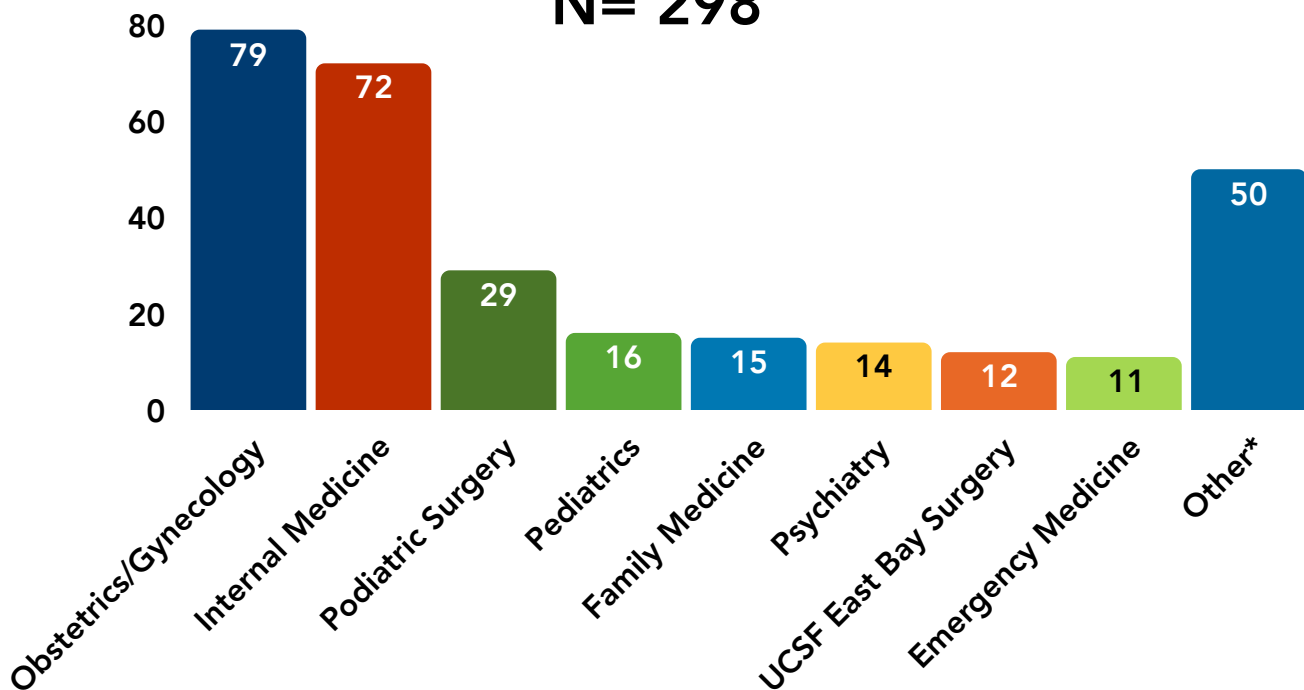


Graduate Medical Education

Impact by the Numbers

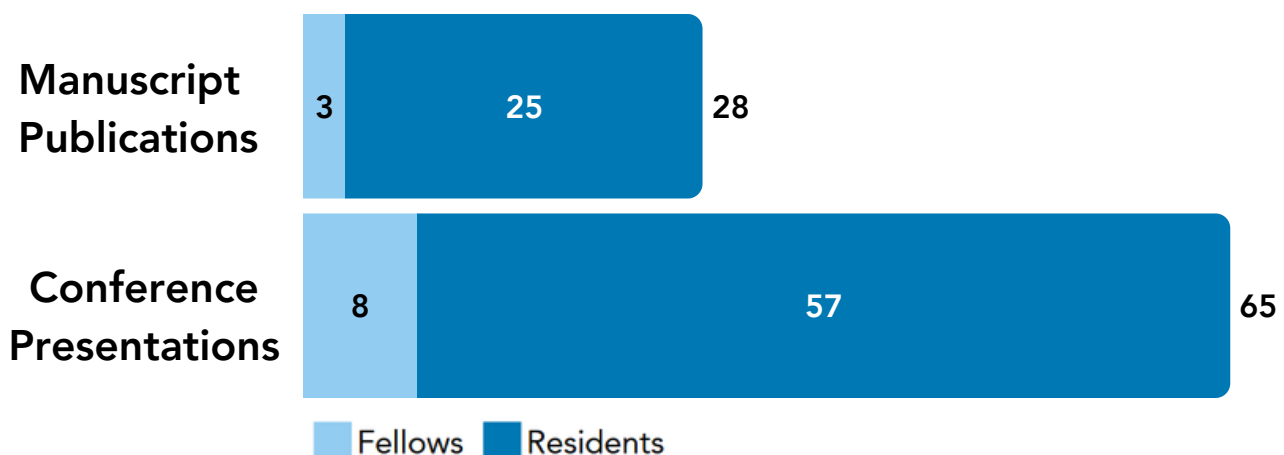
2024 Projects Supported by Trainee Specialty

N= 298



*The BSCU supported 50 additional projects across 12 other clinical specialties in 2024, including Head & Neck Surgery, Vascular Surgery, Urogynecology Hematology/Oncology, Gastroenterology, Cardiovascular Disease, Pediatric Hospital Medicine, Nephrology, Patient Safety, Community Medicine, Gynecological Oncology, and Bariatric Surgery.

GME Scholarly Products N=93



Graduate Medical Education

Research Summary

In 2024, Kaiser Permanente Northern California Graduate Medical Education (GME) invested over \$3.2 million to support research in its 19 residency programs and 18 fellowship programs. Nearly 300 scholarly projects were conducted with support from the Division of Research Biostatistical Consulting Unit (BSCU).

Projects addressed a range of needs, including:

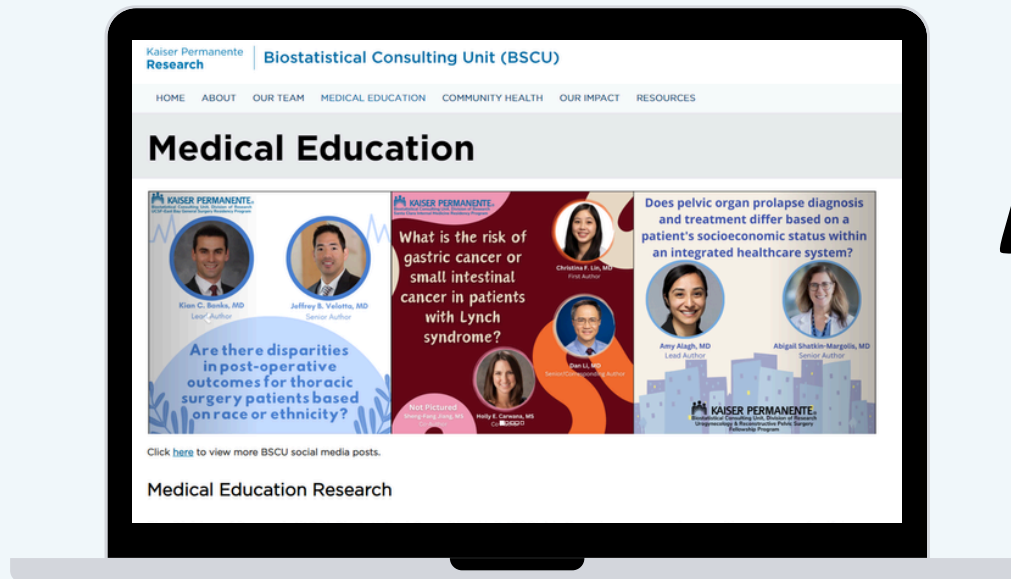
- Identifying risk factors
- Evaluating treatment effectiveness
- Addressing disparities in health care
- Using advanced analytics and predictive modeling
- Optimizing resource use

Scholarly products and examples of high-impact venues:

- 28 manuscripts, including in JAMA Network Open, Journal of the American Heart Association, and Journal of the National Comprehensive Cancer Network
- 65 conference presentations, including at the American Association for Cancer Research, American College of Cardiology, and American College of Gastroenterology annual meetings



Click [here](#) to visit our website for more details on how the BSCU supports its GME partners!



Graduate Medical Education

Scholarly Products by Program Specialty

Community Medicine

The Impact of Culinary Medicine Classes on Cardiovascular and Metabolic Outcomes

Presented at: Lifestyle Medicine Conference, October 29, 2024.

Fu, Y, Jain V, Hammack L, Shing J, Muelly E, Collins A, Camara C.

Family Medicine

Telemedicine vs In-Person Appointments for Initial Assessments of Low Back Pain in Primary Care: Impact on Utilization and Outcomes

Presented at: Society for Teachers of Family Medicine Conference, May 7, 2024.

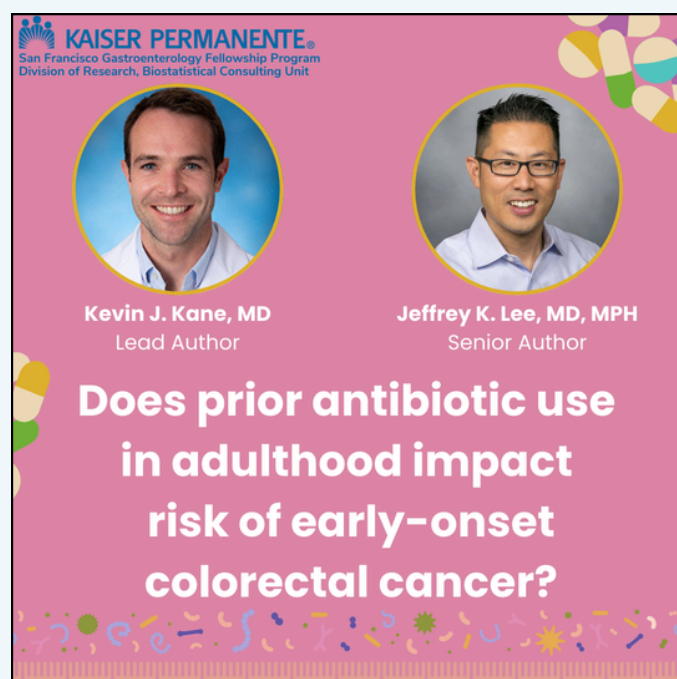
Dowlearn T, Wade E, Funez-Castro E, Shaver J, McDermott S.

The impact of the covid-19 pandemic on glycemic control in patients with diabetes mellitus type 2 enrolled in the preventing heart attacks & strokes everyday program

Presented at: UCSF Department of Family & Community Medicine Jack Rodnick Colloquium, May 16, 2024, and KPNC SCOPE Scholarly Symposium, April 25, 2024.

Luther J, Juan J, Camara C, Harris B, Fomenko V, Liu M.

Gastroenterology



Oral Antibiotic Use in Adulthood and Risk of Early-Onset Colorectal Cancer: A Case-Control Study

Major Finding: No significant association was observed between oral antibiotic use in adulthood and the risk of early-onset colorectal cancer.

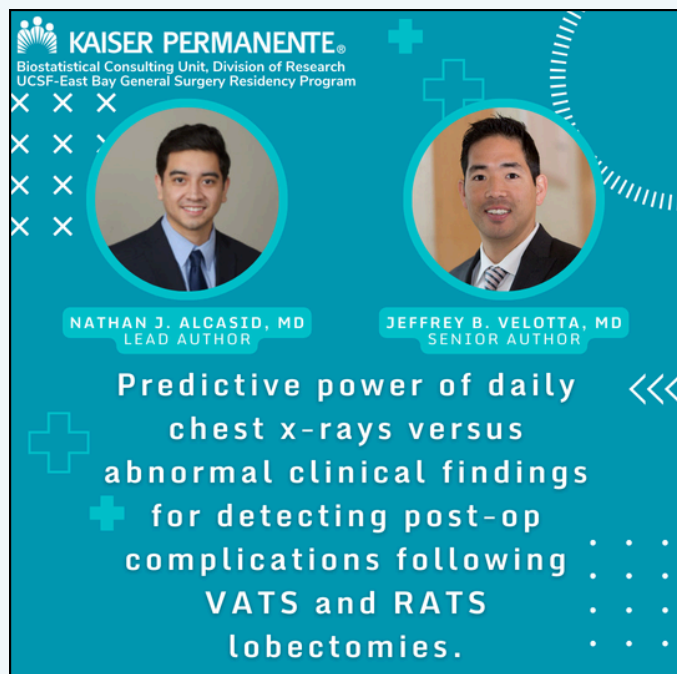
Published in: Clin Gastroenterol Hepatol. 2024 Oct 3:S1542-3565(24)00859-0. doi: 10.1016/j.cgh.2024.09.002. Epub ahead of print. PMID: 39368633.

Kane KJ, Jensen CD, Yang J, Dong H, Merchant SA, Koripella P, Li X, Hendel JM, Corley DA, Lee JK.

Presented at: Clinical Gastroenterology and Hepatology, October 28-30, 2024.

Kane K, Jensen C, Yang J, Dong H, Koripella P, Li X, Corley D, Lee J.

General Surgery

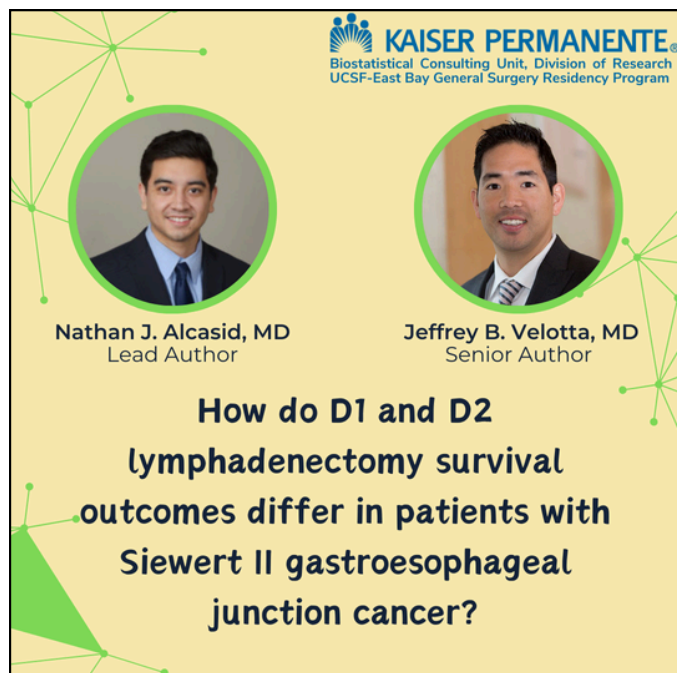


Are routine, daily chest radiographs (CXR) necessary following (VATS and RATS) lobectomies?

Major Finding: Routine daily chest radiographs were not necessary following video-assisted thoracic surgery/robotic assisted thoracic surgery lobectomies for patients without clinical signs or symptoms.

Published in: Surg Open Sci. 2024 May 30;20:20-26. doi: 10.1016/j.sopen.2024.05.010. PMID: 38873330; PMCID: PMC11169440.

Alcasid NJ, Banks KC, Jiang SF, Susai CJ, Hsu D, Carroway W, Williams K, Patel A, Ashiku S, Velotta JB.

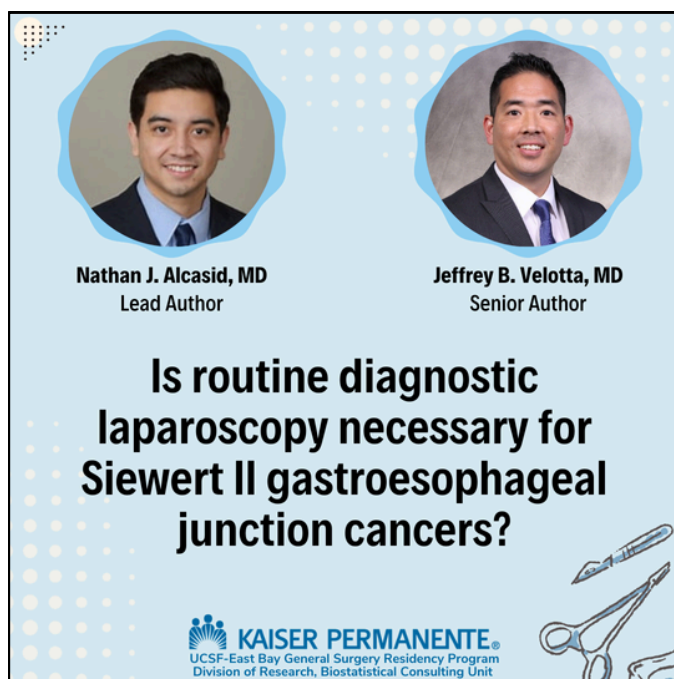


The Impact of D2 Versus D1 Lymphadenectomy in Siewert II Gastroesophageal Junction (GEJ) Cancer

Major Finding: A D2 lymphadenectomy for Siewert II gastroesophageal junction (GEJ) cancer may not be necessary and could lead to increased operative morbidity.

Published in: Ann Surg Oncol. 2024 Jul 30. doi: 10.1245/s10434-024-15623-z. Epub ahead of print. PMID: 39080133.

Alcasid NJ, Fink D, Banks KC, Susai CJ, Barnes K, Wile R, Sun A, Patel A, Ashiku S, Velotta JB.

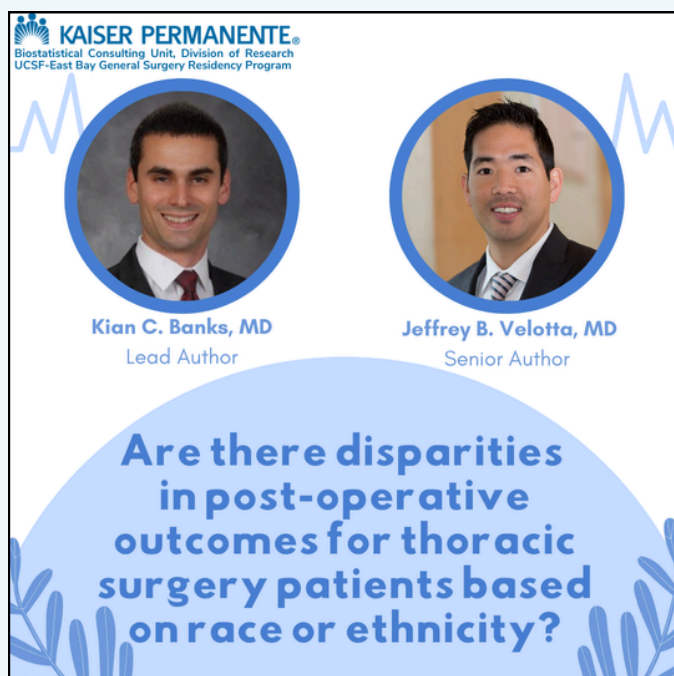


The Impact of Diagnostic Laparoscopy on Upstaging Patients with Siewert II and III Gastroesophageal Junction (GEJ) Cancer

Major Finding: Routine diagnostic laparoscopy showed low upstaging rates in Siewert II gastroesophageal junction adenocarcinomas.

Published in: Ann Surg Oncol. 2024 Nov 6. doi: 10.1245/s10434-024-15862-0. Epub ahead of print. PMID: 39503948.

Alcasid NJ, Fink D, Banks KC, Susai CJ, Barnes K, Wile R, Sun A, Patel A, Ashiku S, Velotta JB.



Differences in outcomes by race/ethnicity after thoracic surgery in a large integrated health system

Major Finding: Hispanic ethnicity and Medicaid insurance were associated with higher 30-day rates of return to the emergency department following thoracic surgery.

Published in: Surg Open Sci. 2024 Apr 15;19:118-124. doi: 10.1016/j.sopen.2024.04.002. PMID: 38655068; PMCID: PMC11035076.

Banks KC, Wei J, Morales LM, Islas ZA, Alcasid NJ, Susai CJ, Sun A, Burapachaisri K, Patel AR, Ashiku SK, Velotta JB.



Outcomes of mediastinal envelope closure during minimally invasive esophagectomy

Major Finding: Complete mediastinal envelope closure during minimally invasive esophagectomy was associated with decreased rates of anastomotic leak, postoperative pyloric dilation, and delayed gastric emptying.

Published in: Surgical Oncology Insight. 2024 Dec 1;1(4):100104.

Susai CJ, Burapachaisri K, Hung YY, Banks KC, Alcasid NJ, Wile RE, Barnes KE, Velotta JB.

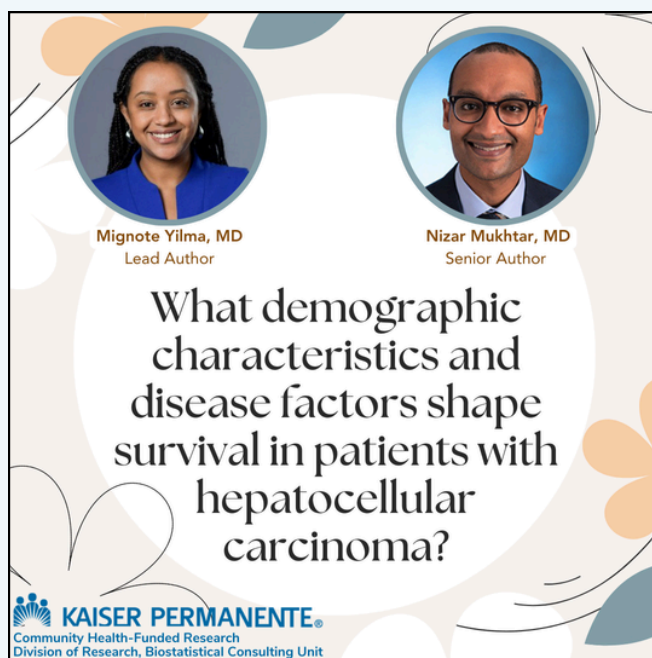


The impact of minimally-invasive esophagectomy operative duration on post-operative outcomes

Major Finding: Longer operative times during minimally invasive esophagectomy were associated with increased rates of anastomotic leak and one-year mortality.

Published in: Front Surg. 2024 Feb 19;11:1348942. doi: 0.3389/fsurg.2024.1348942. PMID: 38440416; PMCID: PMC10909993.

Tupper HI, Roybal BO, Jackson RW, Banks KC, Kwak HV, Alcasid NJ, Wei J, Hsu DS, Velotta JB.



Survival Outcomes Among Patients With Hepatocellular Carcinoma in a Large Integrated US Health System

Major Finding: Patients with early-stage hepatocellular carcinoma who received potentially curative treatment had improved survival outcomes over time, especially patients of Asian or Pacific Islander descent.

Published in: JAMA Netw Open. 2024 Sep 3;7(9):e2435066.doi: 10.1001/jamanetworkopen.2024.35066.PMID: 39316399; PMCID: PMC11423175.

Yilma M, Houhong Xu R, Saxena V, Muzzin M, Tucker LY, Lee J, Mehta N, Mukhtar N.

Outcomes by Treatment Strategy for Stage IIIA Non-Small Cell Lung Cancer (NSCLC)

Presented at: Society of Asian Academic Surgeons Annual Meeting, September 5-6, 2024, and World Conference on Lung Cancer, September 7-10, 2024.

Carroway W, Jiang SF, Velotta J.

Multigene Germline Testing in Patients with DCIS vs IBC in a Large Integrated Health Care System

Presented at: American Society of Breast Surgeons, April 10-14, 2024.

Dzubnar J, Jiang SF, Karlea A, Hoodfar E, Svahn J, Cureton E, Habel L, Shim V.

Pneumothorax in COVID-19: A negative prognostic indicator for in-hospital mortality

Presented at: American College of Chest Physicians, October 6-9, 2024.

Susai C, Burapachaisri K, Hung YY, Marquez A, Ramalingam N, Velotta J.

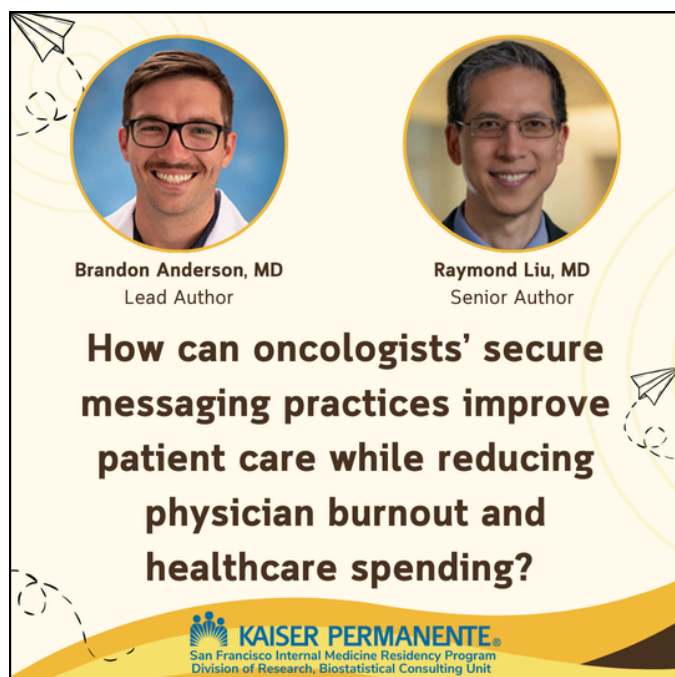
Hematology/Oncology

Oncotype DX testing and differences in use of chemotherapy by age in an integrated system

Presented at: American Association for Cancer Research, March 15, 2024.

Aller A, Lyon L, Habel L, Shirazi A, Liu R.

Internal Medicine



Empowering Care Teams: Redefining Message Management to Enhance Care Delivery and Alleviate Oncologist Burnout

Major Findings: Most patient secure messages (SMs) to oncologists could have been managed by other medical providers. SM exchanges provided significant medical care, suggesting a need for new practice models to reduce costs and curb oncologist burnout.

Published in: J Natl Compr Canc Netw. 2024 Dec;22(10):664-669. doi: 10.6004/jnccn.2024.7055. PMID: 39602886.

Anderson B, Lyon L, Lee M, Kumar D, Neeman E, Duffens A, Kotak D, Sun H, Reed M, Liu R.



Revisiting the Association of ECOG Performance Status With Clinical Outcomes in Diverse Patients With Cancer

Major Finding: An Eastern Cooperative Oncology Group (ECOG) performance status of 3 or 4 was associated with a higher risk of emergency department visits, hospitalizations, and mortality in a diverse community oncology population, particularly among younger patients and those with breast cancer.

Published in: J Natl Compr Canc Netw. 2024 Apr 23;22(2D):e237111. doi: 10.6004/jnccn.2023.7111. PMID:38653321.

Kumar D, Neeman E, Zhu S, Sun H, Kotak D, Liu R.



Risk of Gastric and Small Intestinal Cancer in Patients With Lynch Syndrome: Data From a Large, Community-Based U.S Population

Major Finding: Patients with Lynch Syndrome had a significantly increased lifetime risk of gastric and small intestinal cancer.

Published in: Population. Clin Transl Gastroenterol. 2024 Jun 26.
doi:10.14309/ctg.0000000000000739.
Epub ahead of print. PMID: 38920292.

Lin CF, Carwana HE, Jiang SF, Li D.

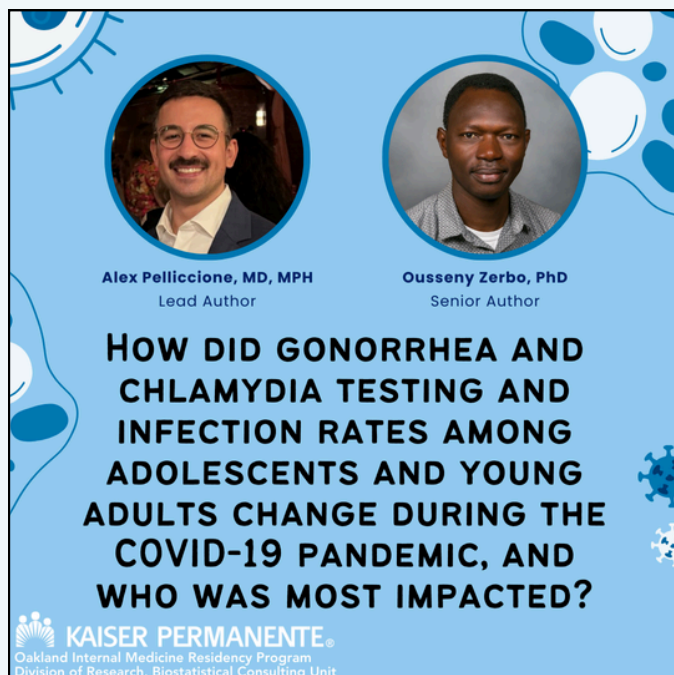


Assessing Glycosylated Hemoglobin Thresholds for Development of Cardiovascular Disease by Racial and Ethnic Groups

Major Findings: Glycosylated hemoglobin (HbA1c) thresholds for predicting major adverse cardiovascular events might differ among racial and ethnic groups, and race- and sex-specific HbA1c thresholds may need to be considered in setting treatment goals.

Published in: J Am Heart Assoc. 2024 May 21;13(10):e033559. doi: 10.1161/JAHA.123.033559. Epub 2024 May 18. PMID: 38761085; PMCID: PMC11179793.

Low CG, Merchant M, Hung YY, Liu YH, Vu J, Pursnani S.

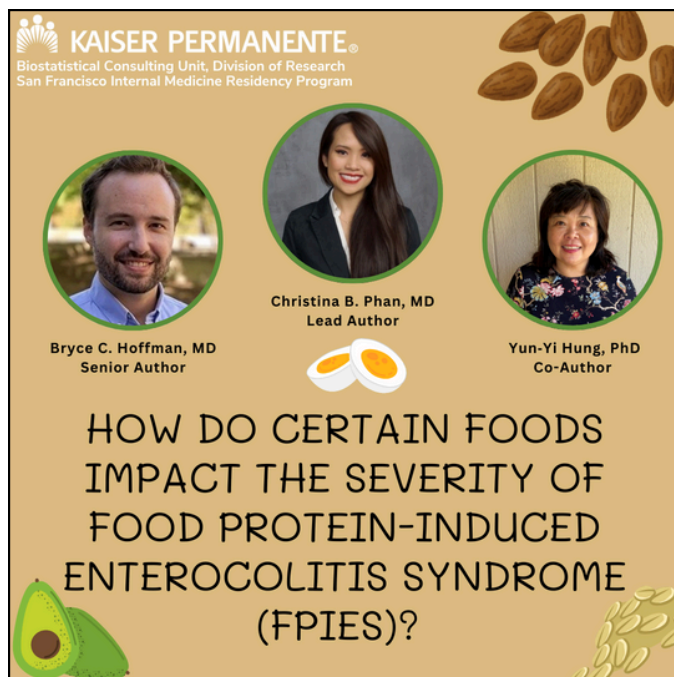


Trends in Gonorrhea and Chlamydia Testing and Infections Across the COVID-19 Pandemic in Adolescents and Young Adults in an Integrated Health System

Major Findings: Sexually transmitted infection (STI) testing in adolescents and young adults dropped dramatically after the start of the COVID-19 pandemic and had not recovered to its prior levels, though preexisting disparities were not exacerbated.

Published in: J Adolesc Health. 2024 Aug 15:S1054-139X(24)00314-8. doi: 10.1016/j.jadohealth.2024.06.029. Epub ahead of print. PMID: 39152973.

Pelliccione A, Modaresi S, Fireman B, Layefsky E, Klein NP, Luu MN, Zerbo O.



Factors associated with severe food protein-induced enterocolitis syndrome

Major Finding: Multiple-food protein induced enterocolitis syndrome and liquid food triggers are associated with more severe reactions, with particularly strong correlations between avocado and banana reactions that challenge current risk categorizations.

Published in: J Allergy Clin Immunol Pract. 2024 Jun 12:S2213-2198(24)00627-5. doi:10.1016/j.jaip.2024.06.005. Epub ahead of print. PMID: 38871027.

Phan CB, Hung YY, Hoffman BC.

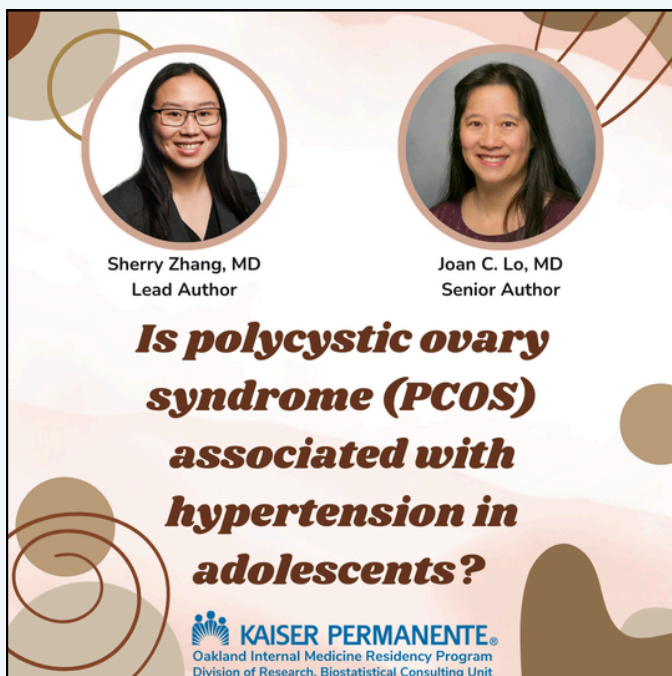


Incident Albuminuria and Ethnicity Among Adults With Diabetes in an Integrated Health Care System in the United States

Major Finding: Among adults with diabetes, some Asian/Pacific Islander subgroups had a higher risk of developing albuminuria over 4 years when compared to non-Hispanic White adults.

Published in: Kidney Med. 2024 Sep 19;6(11):100907. doi: 10.1016/j.xkme.2024.100907. PMID: 39524025; PMCID: PMC11550176.

Zeng B, Darbinian JA, Chen KK, Arzumanyan H, Zheng S, Lo JC.



Hypertensive Blood Pressure in Adolescent Females with Polycystic Ovary Syndrome: Adolescent PCOS and hypertensive blood pressure

Major Findings: In adolescent females, polycystic ovary syndrome was associated with 25% increased adjusted odds of hypertensive blood pressure (BP), which emphasized the importance of BP monitoring in this population.

Published in: Am J Prev Med. 2024 Oct 15:S0749-3797(24)00346-5. doi: 10.1016/j.amepre.2024.10.009. Epub ahead of print. PMID: 39419235.

Zhang S, Darbinian JA, Greenspan LC, Naderi S, Ramalingam ND, Lo JC.

Variation in Prevalence, Treatment, and Outcomes in Heart Failure with Improved Ejection Fraction by Race and Ethnicity

Presented at: American Heart Association Scientific Sessions, November 16-18, 2024.

Chang A, Lee K, Parikh R, Ambrosy A, Tan T, Hamilton S, Porras M, Vardeny O, Ku I, Vasti E, Sandhu A, Go A, Adatya S, Bhatt A.

Racial and Ethnic Differences in the Prevalence of Alopecia Areata in Contemporary Pediatric Practice

Presented at: Skin of Color Update Conference, September 13-15, 2024.

Dani A, Lo J, Darbinian J, Ramalingam N, Mirmirani P.

Influence of sex and race/ethnicity on major adverse cardiovascular outcomes following coronary artery bypass surgery in a large integrated healthcare system

Presented at: KPNC Cardiovascular Research Symposium, April 6, 2024.

Doan J, Fairman A, Stram D, Sheikh A, Ha R, Pursnani S.

Presented at: Journal of the American College of Cardiology, April 6, 2024.

Doan J, Pruzansky A, Stram D, Sheikh A, Ha R, Pursnani S.

Palliative Care Impact on Time Toxicity Among Patients with Advanced Lung Cancer at the End of Life

Presented at: World Conference on Lung Cancer, September 7-10, 2024.

Duffens A, Zhu S, Lydon L, Shirazi A, Lynch A, Gupta A, Liu R.

Preliminary Implementation of Resident-Focused Project aimed at Reducing Hospital-Acquired Debility

Presented at: Society of Hospital Medicine, April 12-15, 2024.

Fink E, Surmava AM, Patel V.

Disparities in Lung Cancer Screening Within an Integrated Healthcare System

Presented at: American Thoracic Society, May 17-22, 2024.

Javier C, Velotta J.

Trends in the Prevalence of Diagnosed Inflammatory Bowel Disease among Asian Subgroups in a Large Northern California Population

Presented at: American College of Gastroenterology, October 27, 2024.

Kapoor C, Wei J, Ramalingam N, Hassid B.

Comparative analysis of the safety of non-surgical treatment options for early- to intermediate-stage hepatocellular carcinoma across a large, integrated health care system in Northern California

Presented at: Digestive Disease Week, May 18-21, 2024.

Lam S, Roybal BO, Li X, Mukhtar N, Balasubramanian S, Saxena V, Muzzin M, Xu R, Ferzanegan F, Freed R, Mehta N, Yilma M, Lee J, MacDonald B, Chai K.

Comparative analysis of response rate and time to progression among non-transplant treatment options for early- to intermediate- stage hepatocellular carcinoma across a large, integrated healthcare system in Northern California

Presented at: Digestive Disease Week, May 18-21, 2024.

Li X, Roybal BO, Lam S, Mukhtar N, Balasubramanian S, Saxena V, Muzzin M, Xu R, Ferzanegan F, Freed R, Mehta N, Yilma M, Lee J, MacDonald B, Chai K.

Comparative Analysis of Clinical Outcomes in Hepatitis B/Delta Virus Co-infection vs Hepatitis B Mono-infection in a Large Integrated Healthcare System

Presented at: American College of Gastroenterology, October 28, 2024.

Li X, Tucker LY, Chai K, Seo S, Mukhtar N, Chee G, Kwong K, Balasubramanian S, MacDonald B, Schmittiel J.

Prevalence, Clinical Characteristics, and Outcomes in Heart Failure with Improved Ejection Fraction by Sex

Presented at: American Heart Association Scientific Sessions, November 16-18, 2024.

Liang Y, Lee K, Parikh R, Ambrosy A, Tan T, Hamilton S, Porras M, Vardeny O, Naderi S, Ku I, Vast E, Sandhu A, Go A, Adatya S, Bhatt A.

Immunosuppressive Therapy (IST)-related Adverse Events in Patients with Glomerular Disorders (GD)

Presented at: American Society of Nephrology Kidney Week, October 25, 2024.

Lim A, Yao M, Shirazi A, Roybal BO, Lapasia J.

Fluid Resuscitation in Severe Sepsis: A Retrospective Study of Kaiser Permanente Northern California Cohort

Presented at: American College of Chest Physicians, October 6-9, 2024.

Macko C, Seigel T, Morehouse J, Tucker LY, Liu V.

When Targeted Therapy Targets the Heart: Osimertinib-related Cardiotoxicity in EGFR Mutated Non-Small Cell Lung Cancer

Presented at: World Conference on Lung Cancer, September 8, 2024.

Martinez F, Liu R, Zhu S, Sakoda L, Goh C, Ropko V, Sarovar V, Suga M.

Variation in hypertensive blood pressure and association with body mass index in a disaggregated population of Asian and Pacific Islander adolescents

Presented at: American Heart Association Scientific Sessions, November 16-18, 2024.

Njuguna V, Zhang S, Darbinian J, Ramalingam N, Naderi S, Shin E, Lo JC.

Cholesterol and statin use trends in a CABG population: insights from a large integrated healthcare system

Presented at: KPNC Cardiovascular Research Symposium, April 8, 2024.

Pruzansky A, Doan J, Stram D, Sheikh A, Ha R, Pursnani S.

Sociodemographic and Clinical Predictors of Diagnosis of Lung Cancer in the Emergency Department in a Large, Integrated Health System

Presented at: World Conference on Lung Cancer, September 7-10, 2024.

Ragavan M, Somers M, Reed M, Dang A, Yang M, Huang T, Vinson D, Sakoda L, Triplett C, Liu R.

Assessing the Safety of High-Risk Percutaneous Coronary Intervention in Non-Cardiac Surgery Settings: An Observational Cohort Study

Presented at: American College of Cardiology Cardiovascular Summit, February 1-3, 2024.

Shin E, Shah A, Tucker LY, Solomon M.

Prevalence, Clinical Characteristics, and Outcomes in Heart Failure with Improved Ejection Fraction by Chronological Age

Presented at: American Heart Association Scientific Sessions, November 16-18, 2024.

Srikanth K, Lee K, Parikh R, Ambrosy A, Tan T, Hamilton S, Vardeny O, Krishnaswami A, Ku I, Vasti E, Sandhu A, Go A, Adatya S, Bhatt A.

Temporal Trends in Attainment of LDL-c Goals Post Coronary Artery Bypass Grafting (CABG): Data From a Large Integrated Healthcare System

Presented at: American Heart Association Scientific Sessions, November 16-18, 2024.

Yang, JY, Stram D, Sheikh AY, Ha R, Pursnani S.

Nephrology

Anticoagulation in Dialysis Vascular Access

Presented at: American Society of Nephrology Kidney Week, October 24-27, 2024.

Shaheed T, Stram D, Shirazi A, Iwasaki S, Chalk C, Zheng S.

CODEX Study - Comparison of declined anticoagulation, Apixaban, and Warfarin in an ESKD cohort

Presented at: Kaiser Permanente East Bay Academy of Medical Educators Research and Scholarship Symposium, May 17, 2024.

Shaheed T, Stram D, Shirazi A, Iwasaki S, Davila C, Zheng S.

Comparison of Effect of Direct Oral Anticoagulation factor Xa inhibitor and Vitamin K Antagonist with no anticoagulation in Dialysis Dependent patients

Presented at: Scholarly Cross-residency Output and Presentation Extravaganza, April 25, 2024.

Shaheed T, Stram D, Shirazi A, Iwasaki S, Davila C, Zheng S.

Obstetrics/Gynecology

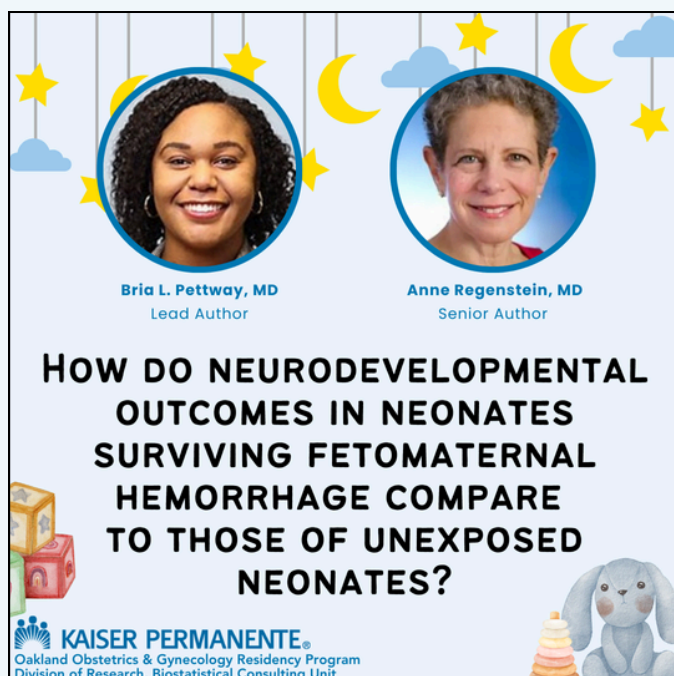


The Effect of an Oxytocin Decision Support Checklist on Oxytocin Use and Maternal and Neonatal Outcomes: A Retrospective Cohort Study

Major Finding: Use of an oxytocin decision support checklist was associated with decreased oxytocin use, but longer labor times.

Published in: American Journal of Perinatology. 2024 Feb. DOI: 10.1055/a-2278-9119. PMID: 38423119.

Kandahari N, Tucker LY, Raine-Bennett TR, Palacios J, Schneider AN, Mohta VJ.

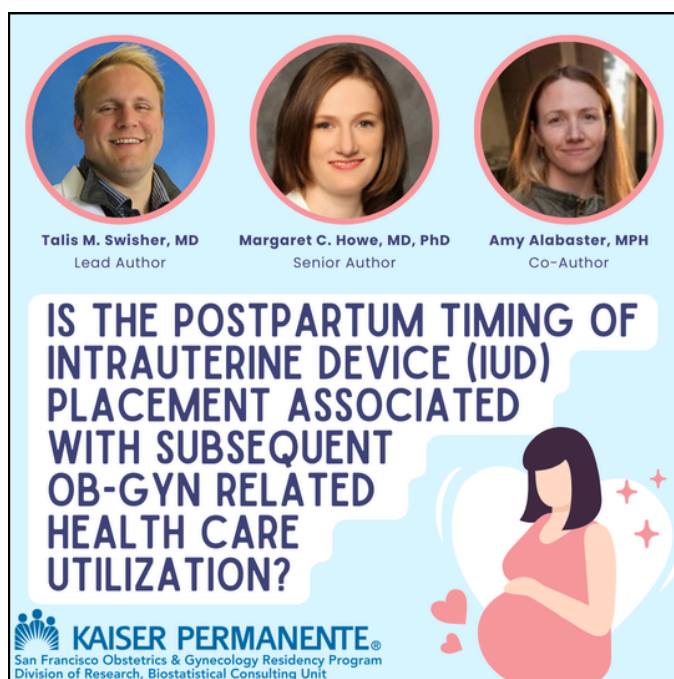


Neurodevelopmental Outcomes in Neonates Surviving Fetomaternal Hemorrhage Compared with a Matched Unexposed Group in a Large Integrated Health Care System

Major Finding: Although fetomaternal hemorrhage (FMH) is associated with significant morbidity and mortality in infants, no association was found between FMH exposure and adverse neurodevelopmental outcomes in surviving infants.

Published in: Am J Perinatol. 2024 Nov 12. doi: 10.1055/a-2441-3761. Epub ahead of print. PMID: 39532114.

Pettway BL, Boller MJ, Hung YY, Onyewuenyi TL, Ritterman Weintraub M, Kuzniewicz MW, O'Donnell B, Regenstein A.



Health Care Utilization After Immediate Compared With Delayed Postpartum Intrauterine Device Placement

Major Finding: Although immediate postpartum, compared to delayed, IUD placement did not lead to an increase in OB/GYN office visits, the former was associated with more imaging, but fewer laparoscopic surgeries for IUD-related complications.

Published in: Obstet Gynecol. 2025 Feb 1;145(2):e65-e73. doi: 10.1097/AOG.0000000000005807. Epub 2024 Dec 12. PMID: 39666977.

Swisher TM, Alabaster A, Howe MC.

Paratubal Cysts, PCOS, and Obesity in Adolescence: A Retrospective Cohort Study

Presented at: KPNC Obstetrics & Gynecology Resident Research Symposium, April 20, 2024.

Brookhart C, Malekyan C, Tucker LY, Shirazi A, Woo V.

Incidence of intrauterine synechiae in women with a history of dilation and curettage

Presented at: Pacific Coast Reproductive Society, March 20-23, 2024.

Chen S, Samiezade-Yazd Z, Triplett C, Purusothaman V, Joshi N.

Pain Without Prejudice: Examining Disparities in Endometriosis and Pelvic Pain Management Stratified by Race in an Integrative Health Care System

Presented at: American College of Obstetricians & Gynecologists Annual Clinical and Scientific Meeting, May 17-19, 2024.

Hen E, Childs A, Zaritsky E, Wicks C, Ritterman Weintraub M, Tucker LY.

Presented at: Society of Gynecologic Surgeons Annual Scientific Meeting, March 24-27, 2024.

Zaritsky E, Childs A, Hen E, Tucker LY, Weintraub-Ritterman M, Wicks C.

Factors associated with fertility sparing management and pregnancy in gynecologic precancer and cancer

Presented at: Western Association of Gynecologic Oncology, June 12-15, 2024.

Lowry C, Connelly E, Camara C, Wei J, Garcia C.

Patient Tolerance of New Mara Endometrial Ablation System

Presented at: American Association of Gynecologic Laparoscopists, November 16-19, 2024.

Mickelsen R, Rojasova S, Triplett C, Malekyan C, Tucker LY, Heinlein P.

Pregnancy outcomes in women with cardiovascular disease: a retrospective cohort study from Kaiser Permanente Northern California

Presented at: American Heart Association Scientific Sessions, April 14-16, 2024, and KPNC Cardiovascular Research Symposium, May 3, 2024.

Partani E, Shi C, Stram D, McDonald M, Triplett C, Ting J, Stephenson M, Joshi N, Pursnani S.

Postpartum Contraceptive Use Among South Asians: A Retrospective Cohort Study from Kaiser Northern California

Presented at: KPNC SCOPE Scholarly Symposium, April 25, 2024.

Partani E, Wade E, Triplett C, Zaid E.

Analysis of temporal trends and characteristics of gender affirming hysterectomies pre- and post-expansion of health care coverage at a large integrated California health care system

Presented at: Society of Gynecologic Surgeons Annual Scientific Meeting, March 24-27, 2024; Kaiser Permanente East Bay Academy of Medical Educators Research and Scholarship Symposium, May 17, 2024; American College of Obstetricians & Gynecologists Annual Clinical and Scientific Meeting, May 17-19, 2024; KPNC SCOPE Scholarly Symposium, April 25, 2024.

Radoc J, Zaritsky E, Zhao Y, Tucker LY, Huynh A, Weintraub M.

Exploring Trends in Transgender Care: A Decade of Gender-Affirming Hysterectomies and Ovarian Conservation at Kaiser Permanente Northern California

Presented at: KPNC Obstetrics & Gynecology Resident Research Symposium, April 20, 2024.

Radoc J, Zhao Y, Huynh A, Tucker LY, Weintraub M, Zaritsky E.

Policy to Practice: Decoding a Decade of Gender-Affirming Hysterectomies and Ovarian Conservation at Kaiser Permanente Northern California

Presented at: San Francisco Gynecological Society Annual Meeting, May 7, 2024.

Radoc J, Zhao Y, Tucker LY, Huynh A, Weintraub M, Zaritsky E.

Trends in Transgender Care: Gender Affirming Hysterectomy and Ovarian Conservation at the Time of Hysterectomy from 2010-2019

Presented at: World Professional Association for Transgender Health, September 25-30, 2024.

Radoc J, Zhao Y, Tucker LY, Huynh A, Weintraub MR, Zaritsky E.

Obstetric Hemorrhage: Outcomes of Massive Transfusion Protocol Implementation

Presented at: KPNC SCOPE Scholarly Symposium, April 25, 2024.

Tsai R, Sanchez O, Samiezade-Yazd Z, Triplett C, Stephenson M.

Immediate Postpartum Long-Acting Reversible Contraception (LARC) and its Impact on Pregnancy and Contraceptive Outcomes in Patients that Desired Elective Sterilization

Presented at: Society for Academic Specialists in General Obstetrics and Gynecology, May 16, 2024.

Tsai R, Wade E, Tucker LY, Triplett C, Murphy K.

Survival in HPV and non-HPV associated invasive cervical cancer: outcomes in a large, integrated healthcare system

Presented at: Western Association of Gynecologic Oncology, June 12-15, 2024 and

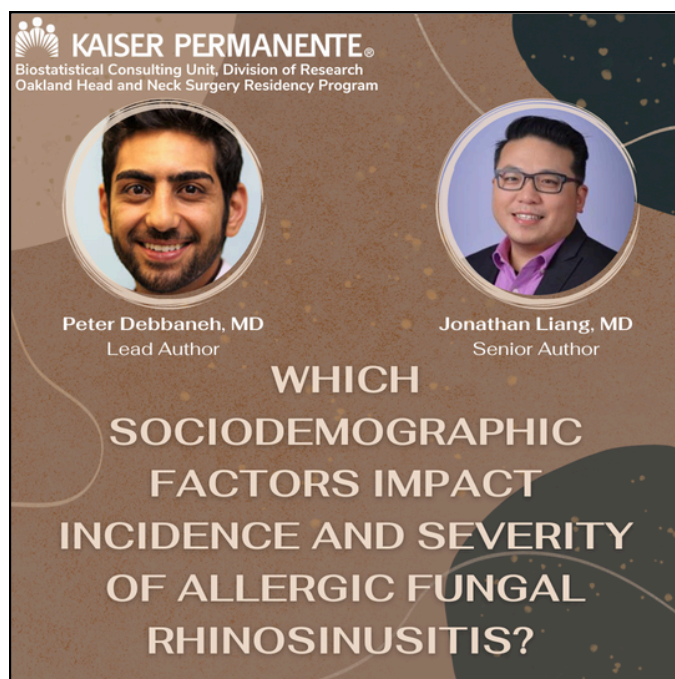
Williams G, Fink D, Weintraub M, Garcia C.

Survival in HPV and non-HPV associated cervical cancer: outcomes in a large, integrated healthcare system

Presented at: Kaiser Permanente East Bay Academy of Medical Educators Research and Scholarship Symposium, May 17, 2024.

Williams G, Garcia C, Fink D, Weintraub M.

Otolaryngology (Head & Neck)



Exploring Sociodemographic Factors in Allergic Fungal Rhinosinusitis in a Northern California Patient Population

Major Finding: Allergic fungal rhinosinusitis (AFRS), including severe AFRS, had a higher incidence in Black patients.

Published in: Perm J. 2024 Jun 14;28(2):78-85. doi: 10.7812/TPP/23.165. Epub 2024 May 15. PMID: 38745453; PMCID: PMC11232913.

Debbaneh P, Singh P, Swisher AR, Wei JC, Liang J.




Richard Antonio Pellizzari, BS
Lead Author



Alexander Rivero, MD
Senior Author

Is severity of sinonasal inflammation associated with otologic complications in aspirin exacerbated respiratory disease?



KAISER PERMANENTE®
Oakland Head and Neck Surgery Residency Program
Division of Research, Biostatistical Consulting Unit

The Hidden "Ear-Way": A Cohort Analysis of Otologic Manifestations in Aspirin Exacerbated Respiratory Disease

Major Finding: Otologic manifestations were common in patients with aspirin exacerbated respiratory disease, but there was no correlation between sinonasal inflammation and otologic sequelae.

Published in: Ann Otol Rhinol Laryngol. 2024 Nov 21:34894241297943. doi: 10.1177/00034894241297943. Epub ahead of print. PMID: 39573932.

Pellizzari RA, Wei J, Saba E, Shah S, Greene L, Tran QL, Debbaneh P, Rivero A.




KAISER PERMANENTE®
Biostatistical Consulting Unit
Division of Research
Community Health Program

How does adenotonsillectomy impact the level of healthcare utilized by children with obstructive sleep apnea?



Elias S. Saba, MD
Lead Author



Mustafa Bseikri, MD
Senior Author

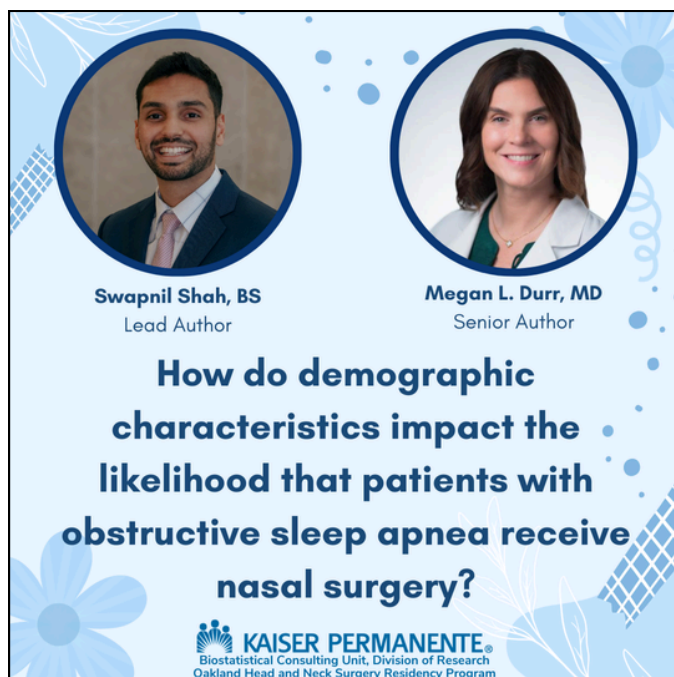
The impact of adenotonsillectomy on healthcare utilization in children with obstructive sleep apnea: Experience of an integrated medical model

Major Finding: Adenotonsillectomy decreased healthcare utilization patterns, particularly in children with severe obstructive sleep apnea.

Published in: Int J Pediatr Otorhinolaryngol. 2024 Jun;181:111987. doi: 10.1016/j.ijporl.2024.111987. Epub 2024 May 20. PMID: 38838474.

Presented at: Kaiser Permanente East Bay Academy of Medical Educators Research and Scholarship Symposium, May 17, 2024.

Saba E, Fink D, Schloegel L, Bseikri M.



Demographics of Adults With Obstructive Sleep Apnea Who Undergo Nasal Surgery

Major Finding: Black and Asian/Pacific Islander adults with severe obstructive sleep had decreased odds of undergoing nasal surgery compared with non-Hispanic White patients.

Published in: OTO Open. 2024 Sep 17;8(3):e70005. doi: 10.1002/oto2.70005. PMID: 39290576; PMCID: PMC11405934.

Shah S, Darbinian JA, Collazo SA, Nguyen DK, Durr ML.

Unmasking Risk Factors for Post-COVID19 Olfactory Dysfunction: A Case-Control Study of Lost and Lingering Smells

Presented at: American Academy of Otolaryngology - Head & Neck Surgery Annual Meeting, September 28, 2024.

Hoerter JE, Wei JC, Stephanian B, Pellizzari R, Liang J.

The Impact of Adenotonsillectomy on Healthcare Utilization in Pediatric Obstructive Sleep Apnea (OSA)

Presented at: American Society of Pediatric Otolaryngology, May 15-19, 2024.

Saba E, Fink D, Schloegel L, Bseikri M.

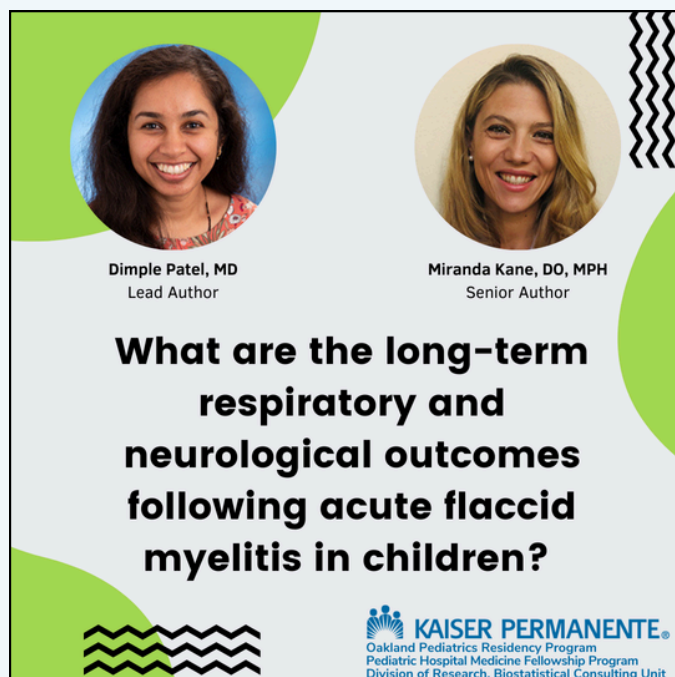
Pediatric Hospital Medicine

Frequency of Urine Testing and Urinary Tract Infections in Newborns Undergoing Phototherapy for Hyperbilirubinemia

Presented at: Kaiser Permanente East Bay Academy of Medical Educators Research and Scholarship Symposium, May 17, 2024.

Nayak K, Kane M, Schroeder A, Newman T, Jiang SF, Amanjee K, Chang P.

Pediatrics



Pediatric Patients With Acute Flaccid Myelitis: Long-term Respiratory and Neurologic Outcomes

Major Finding: Respiratory failure at presentation led to worse outcomes in children with acute flaccid myelitis, including prolonged neurologic deficits and the need for long-term respiratory support.

Published in: *Pediatr Infect Dis J.* 2024 Dec 10. doi: 10.1097/INF.0000000000004673. Epub ahead of print. PMID: 39657203

Patel D, Kragel EA, Liu SD, Sonne C, Zhu S, Malhotra A, Van Haren KP, Ritterman Weintraub M, Kane M.

Optimizing Care for Neutropenic Fever in Pediatric Patients Based on Body Temperature Criteria

Presented at: American Society of Pediatric Hematology/Oncology Conference, April 3-6, 2024.

Bhattacharjee S, Zhao Y, Tucker LY, Weintraub MR, Hu C.

Optimizing care for neutropenic fever in pediatric patients: An analysis of treatment approaches and clinical outcomes based on body temperature criteria for hospital admission

Presented at: Pediatric Grand Rounds, April 10, 2024; KPNC SCOPE Scholarly Symposium, April 25, 2024; Kaiser Permanente East Bay Academy of Medical Educators Research and Scholarship Symposium, May 17, 2024.

Bhattacharjee S, Zhao Y, Tucker LY, Weintraub MR, Hu C.

Impact of Social Determinants on Pediatric Appendicitis Outcomes within an Integrated and Health Equity Focused Healthcare System

Presented at: Kaiser Permanente East Bay Academy of Medical Educators Research and Scholarship Symposium, May 17, 2024.

Kragel E, Bhattacharjee P, Brown M, Wei J, Ritterman Weintraub M, Yamout, S.

Podiatric Surgery



Secondary Surgery Following Lapidus Bunionectomy

Major Finding: Female sex and use of a screw for third point of fixation emerged as an independent risk factor for revision surgery, including hardware removal, following Lapidus bunionectomy.

Published in: J Foot Ankle Surg. 2024 Jun 22:S1067-2516(24)00114-5. doi: 10.1053/j.jfas.2024.05.011. Epub ahead of print. PMID: 38914154.

Kane LA, Weintraub MLR, Mitchell L, Parker M, King CM, Pollard JD.

Comparison of Wound Swab and Tissue Biopsy at Bedside vs Intraoperatively in Guiding Antibiotic Treatment for Diabetic Foot Infections

Presented at: Kaiser Summit, May 11, 2024.

Tran T, Knueppel R, Alexander J, Flores J, Neagu C.

Psychiatry



Changes in Service Use After Participation in an Intensive Outpatient Program Among Adults With Posttraumatic Stress Disorder

Major Finding: Participation in an intensive outpatient program was linked to a significant reduction in inpatient psychiatric hospitalizations and mental health-related emergency department visits among patients with posttraumatic stress disorder.

Published in: Perm J. 2024 Sep 16;28(3):76-83. doi: 10.7812/TPP/24.019. Epub 2024 Jul 9. PMID: 38978466; PMCID: PMC11404658.

Abeldt BM, Brown KH, Wei J, Ramalingam ND, Hirschtitt ME.

Urogynecology



Implication of Neighborhood Deprivation Index on Pelvic Organ Prolapse Management

Major Finding: No clinically significant differences were found in urogynecology consultation, surgical treatment, and surgical procedure type performed for prolapse across different levels of neighborhood deprivation.

Published in: Urogynecology (Phila). 2024 Mar 7. doi: 10.1097/SPV.0000000000001501. Epub ahead of print. PMID: 38465980.

Alagh A, Ramm O, Lyon LL, Ritterman Weintraub ML, Shatkin-Margolis A.



Retropubic Versus Transobturator Midurethral Slings at Time of Colpocleisis

Major Finding: Both retropubic and transobturator midurethral slings were similarly effective anti-incontinence options at the time of colpocleisis.

Published in: Urogynecology (Phila). 2024 May 15. doi:10.1097/SPV.0000000000001509. Epub ahead of print. PMID: 38747626.

Wong JWH, Stram DA, Patel MS.

Urogenital Pain Disorders Are Associated with Childhood Trauma

Presented at: American Urogynecologic Society PFD Week, October 25, 2024.

Saad J, Malekyan C, Deraeau E, Tucker LY, Hen E, Ramm O.

Community Health

In partnership with our Central Research Committee (CRC) and the Kaiser Permanente Community Health program, the BSCU helps our clinicians develop competitive research proposals and implement impactful studies aligned with community health priorities.

What our CH Research Partners are Saying:



Paradi Mirmirani, MD
Dermatology
Vallejo Medical Center

The BSCU provided critical partnerships for our 4 Napa Solano Community Health grant recipients for 2024. The BSCU staff worked with new and experienced physicians to transform a clinical question into a feasible and impactful research proposal.

My experience with BSCU, specifically working with Sophie (Sheng-Fang) Jiang was delightful. She was very responsive to my requests and provided all the statistical analysis and subgroup analysis I requested within a reasonable time frame.



Robert Li, MD
Bariatric Surgery
South San Francisco
Medical Center



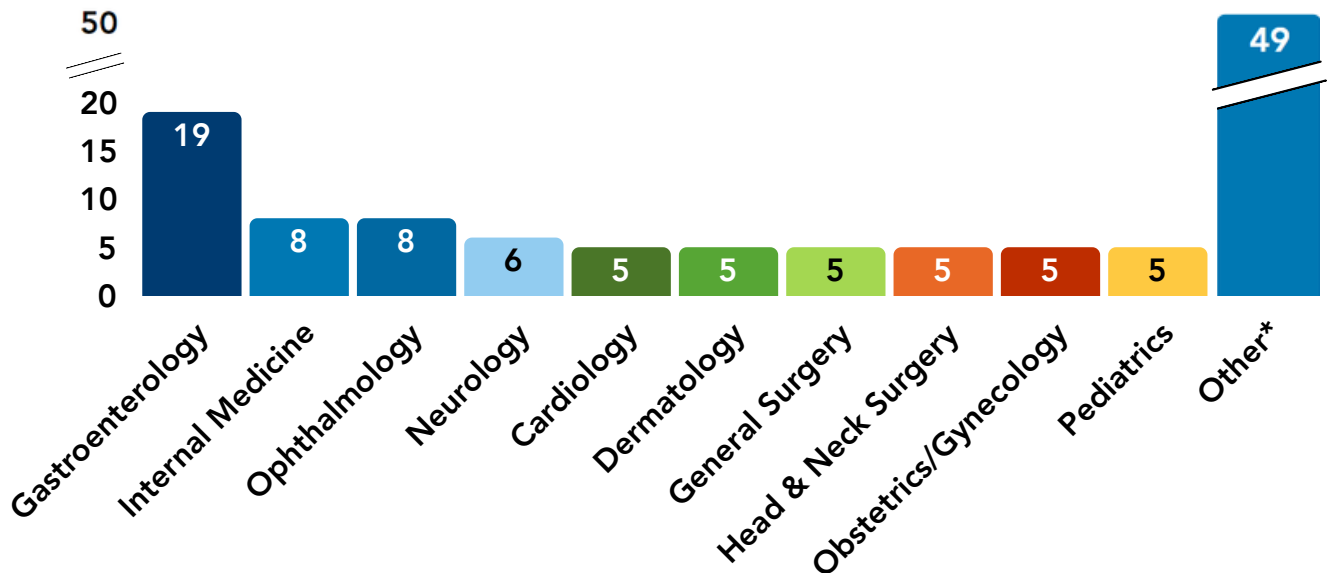
Jasmine Dhaliwal, MD
Hospital Medicine
San Jose Medical Center

We received tremendous support from the BSCU consultants while working on the Community Health Research Grant in 2024. We felt a close sense of alliance and partnership with this team. Being first-time clinical investigators, our questions were always met with thoughtful responses and constant encouragement. We feel a sense of confidence as we embark on our upcoming study with the steadfast goal of meaningful contributions to research and furtherance of Community Health.

Community Health Impact by the Numbers

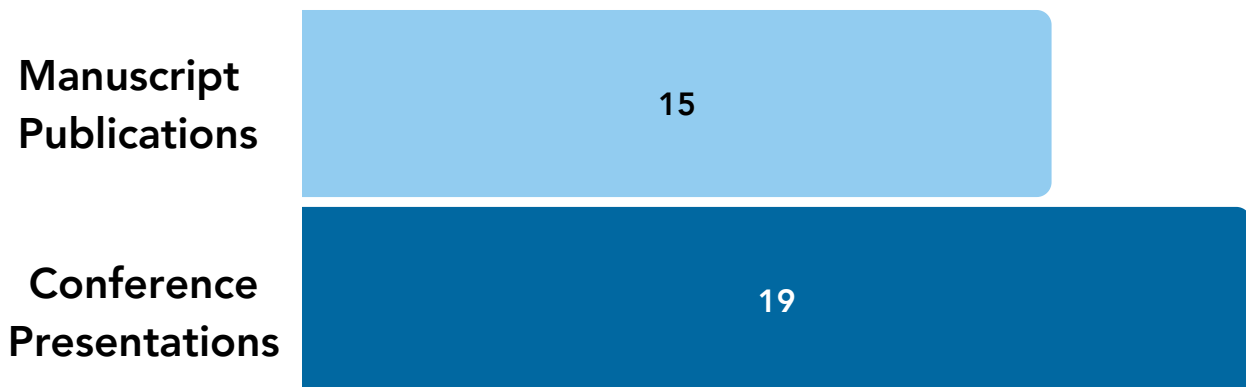
2024 CH Projects by PI Clinical Specialty

N= 120



*The BSCU supported 49 additional projects across 26 other clinical specialties in 2024, such as Oncology, Gynecology/Oncology, Infectious Disease, Perinatology, Podiatric Surgery, Radiology, Urology, Anesthesiology, Emergency Medicine, Hospital Medicine, Pediatric Hospital Medicine, Plastic Surgery, and Rheumatology.

CH Scholarly Products N=34



Community Health Research Summary

In 2024, the Kaiser Permanente Northern California (KPNC) Central Research Committee (CRC) provided over \$1.4 million Community Health dollars to KPNC investigators to develop and implement research. Over 100 scholarly projects were conducted with support from the Division of Research Biostatistical Consulting Unit (BSCU).

Projects covered a wide range of clinical specialties and research areas, including:

- Reflecting a focus on improving patient outcomes
- Understanding disease mechanisms
- Addressing health disparities in health care
- Evaluating current clinical practices
- Exploring new approaches to treatment and prevention

Scholarly products and examples of high-impact venues:

- 15 manuscripts, including the Journal of the American Medical Association (JAMA) Open Network, Pediatrics, and the American Journal of Obstetrics and Gynecology
- 19 conference presentations, including the American College of Gastroenterology, the American College of Cardiology and American College of Obstetricians & Gynecologists annual meetings



Click [here](#) to visit our website for more details on how the BSCU supports its CH partners!



Community Health

Scholarly Products by Clinical Specialty

Addiction Medicine

Factors Associated with Early Dropout from Residential Treatment for Substance Use Disorders

Presented at: KP Napa-Solano Annual Research Week, May 20, 2024.

Athale N, Stram D.

Demographic, Clinical, and Service Utilization Factors Associated with Follow up after Discharge from Residential Treatment for Substance Use Disorders

Presented at: KP Napa-Solano Annual Research Week, May 20-24, 2024.

Athale N, Stram D.

Cardiology

Pregnancy outcomes in women with cardiovascular disease: a retrospective cohort study from Kaiser Permanente Northern California

Presented at: American Heart Association Scientific Sessions, April 14-16, 2024 and KPNC Cardiovascular Research Symposium, May 3, 2024.

Partani E, Shi C, Stram D, McDonald M, Triplett C, Ting J, Stephenson M, Joshi N, Pursnani S.

Assessing the Safety of High-Risk Percutaneous Coronary Intervention in Non-Cardiac Surgery Settings: An Observational Cohort Study

Presented at: American College of Cardiology Cardiovascular Summit, February 1-3, 2024.

Shin E, Shah A, Tucker LY, Solomon M.

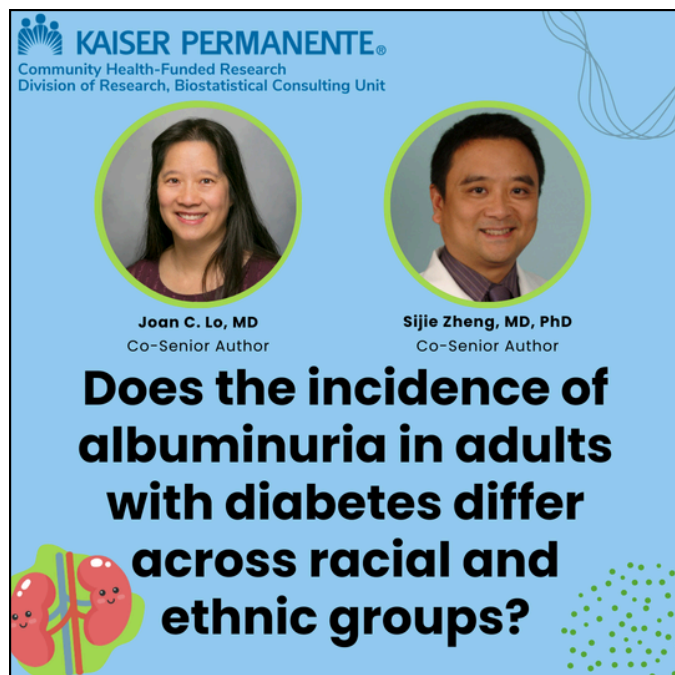
Emergency Medicine

Fluid Resuscitation in Severe Sepsis: A Retrospective Study of Kaiser Permanente Northern California Cohort

Presented at: American College of Chest Physicians, October 6-9, 2024.

Macko C, Seigel T, Morehouse J, Tucker LY, Liu V.

Endocrinology



Incident Albuminuria and Ethnicity Among Adults with Diabetes in an Integrated Health Care System in the United States

Major Finding: Among adults with diabetes, some Asian/Pacific Islander subgroups had a higher risk of developing albuminuria over 4 years when compared to non-Hispanic White adults.

Published in: Kidney Med. 2024 Sep 19;6(11):100907. doi:10.1016/j.xkme.2024.100907. PMID: 39524025; PMCID: PMC11550176.

Zeng B, Darbinian JA, Chen KK, Arzumanyan H, Zheng S, Lo JC.

Gastroenterology



Risk factors for recurrent emergency care utilization for flares in inflammatory bowel disease

Major Finding: Older patients and those from higher-income neighborhoods had a lower risk of recurrent emergency department (ED) visits, while mood disorders, a history of opiate use, and corticosteroid prescriptions increased this risk. Contrary to expectations, prompt outpatient follow-up did not reduce recurrent ED utilization.

Published in: Acad Emerg Med. 2024 Jan;31(1):28-35. doi: 10.1111/acem.14823. Epub 2023 Nov 5. PMID: 37876120.

Hassid BG, Wei J, Sax D, Velayos FS.

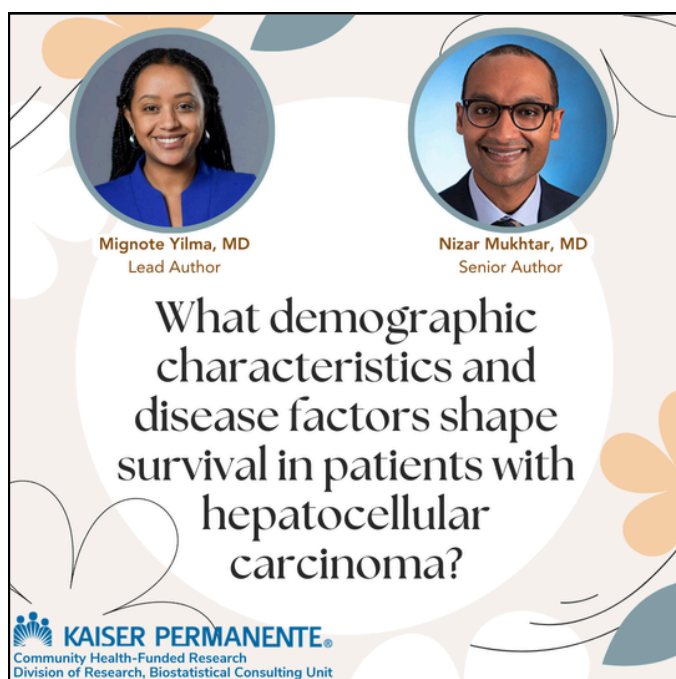


Distinct Clinical Characteristics and Predictors of Sporadic Mismatch Repair-Deficient Colorectal Cancer

Major Finding: Being older, female, non-Hispanic White, and having a history of smoking and serrated polyps were independently associated with a higher risk of Sporadic Mismatch Repair-Deficient Colorectal Cancer.

Published in: 2024 Sep 26;4(2):100558. doi: 10.1016/j.gastha.2024.09.013. PMID: 39866716; PMCID: PMC11760291.

Li D, Jiang SF, Levin TR, Goel A, Corley DA.



Survival Outcomes Among Patients With Hepatocellular Carcinoma in a Large Integrated US Health System

Major Finding: Patients with early-stage hepatocellular carcinoma who received potentially curative treatment had improved survival outcomes over time, especially patients of Asian or Pacific Islander descent.

Published in: JAMA Netw Open. 2024 Sep 3;7(9):e2435066.doi: 10.1001/jamanetworkopen.2024.35066.PMID: 39316399; PMCID: PMC11423175.

Yilma M, Houhong Xu R, Saxena V, Muzzin M, Tucker LY, Lee J, Mehta N, Mukhtar N.

Biologic therapy is not associated with increased risk of cancer or infection in elderly patients with inflammatory bowel disease

Presented at: American College of Gastroenterology, October 28, 2024.

Chan J, Roy A, Wade E, Tucker LY, Velayos F.

Fluid Resuscitation in Severe Sepsis: A Retrospective Study of Kaiser Permanente Northern California Cohort

Presented at: American College of Chest Physicians, October 6-9, 2024.

Macko C, Seigel T, Morehouse J, Tucker LY, Liu V.

Comparative analysis of the safety of non-surgical treatment options for early- to intermediate-stage hepatocellular carcinoma across a large, integrated health care system in Northern California

Presented at: Digestive Disease Week, May 18-21, 2024.

Lam S, Roybal BO, Li X, Mukhtar N, Balasubramanian S, Saxena V, Muzzin M, Xu R, Ferzanegan F, Freed R, Mehta N, Yilma M, Lee J, MacDonald B, Chai K.

Comparative analysis of response rate and time to progression among non-transplant treatment options for early- to intermediate- stage hepatocellular carcinoma across a large, integrated healthcare system in Northern California

Presented at: Digestive Disease Week, May 18-21, 2024.

Li X, Roybal BO, Lam S, Mukhtar N, Balasubramanian S, Saxena V, Muzzin M, Xu R, Ferzanegan F, Freed R, Mehta N, Yilma M, Lee J, MacDonald B, Chai K.

Gynecology/Oncology

Yun-Yi Hung, PhD
Co-Author

Julie A. Schmittiel, PhD
Senior Author

Elizabeth J. Suh-Burgmann, MD
Lead Author

How long should stable ovarian masses be monitored on ultrasound?

KAISER PERMANENTE
Biostatistical Consulting Unit, Division of Research
Community Health Program

Ovarian cancer risk among older patients with stable adnexal masses

Major Finding: Risk of ovarian cancer in older patients with stable adnexal masses was very low, with no cancer cases observed after 52 weeks of stability.

Published in: Am J Obstet Gynecol. 2024 May 2:S0002-9378(24)00525-8. doi: 10.1016/j.ajog.2024.04.019. Epub ahead of print. PMID: 38703938.

Suh-Burgmann EJ, Hung YY, Schmittiel JA.

Factors associated with fertility sparing management and pregnancy in gynecologic precancer and cancer

Presented at: Western Association of Gynecologic Oncology, June 12-15, 2024.

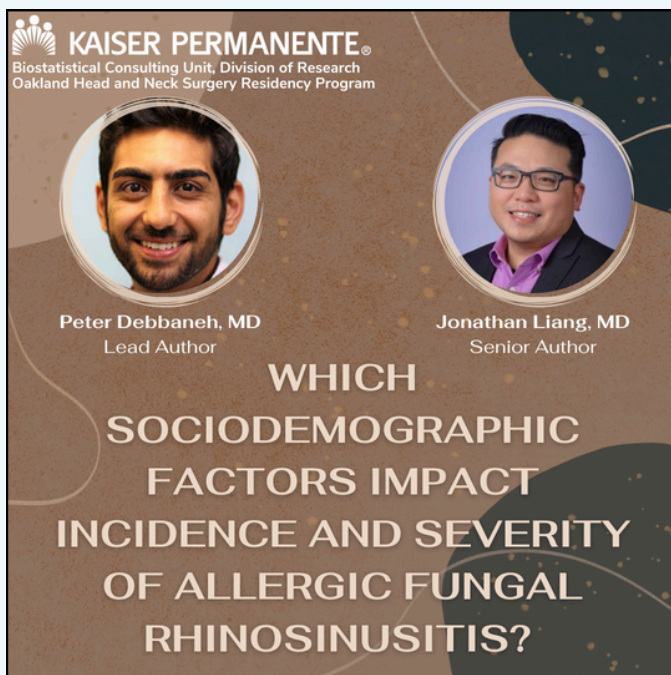
Lowry C, Connelly E, Camara C, Wei J, Garcia C.

Reducing Endometrial Cancer Disparities to Advance Health Equity (REACH Study)

Presented at: American College of Obstetricians & Gynecologists Annual Clinical and Scientific Meeting, May 18, 2024.

Suh-Burgmann B, Nau C, Finertie H, Eng S.

Head & Neck Surgery



Exploring Sociodemographic Factors in Allergic Fungal Rhinosinusitis in a Northern California Patient Population

Major Finding: Allergic fungal rhinosinusitis (AFRS), including severe AFRS, had a higher incidence in Black patients.

Published in: Perm J. 2024 Jun 14;28(2):78-85. doi: 10.7812/TPP/23.165. Epub 2024 May 15. PMID: 38745453; PMCID: PMC11232913.

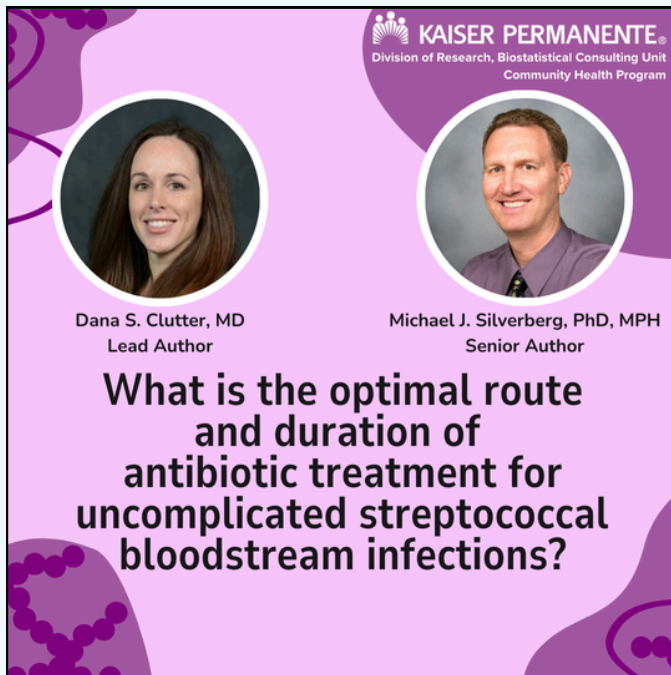
Debbaneh P, Singh P, Swisher AR, Wei JC, Liang J.

Unmasking Risk Factors for Post-COVID19 Olfactory Dysfunction: A Case-Control Study of Lost and Lingering Smells

Presented at: American Academy of Otolaryngology - Head & Neck Surgery Annual Meeting, September 28, 2024.

Hoerter JE, Wei JC, Stephanian B, Pellizzari R, Liang J.

Infectious Disease



Antibiotic duration and route for treatment of adults with uncomplicated streptococcal bloodstream infections: a retrospective study in a large healthcare system

Major Finding: Among adults hospitalized with uncomplicated streptococcal bloodstream infections, 5–10-day courses of antibiotics were not inferior to 11–15-day courses, and the oral switch of antibiotics was found to be more effective than an entirely intravenous route.

Published in: Antimicrob Agents Chemother. 2024 Aug 7;68(8):e0022024. doi: 10.1128/aac.00220-24. Epub 2024 Jul 8. PMID:38975753; PMCID:PMC11304718.

Clutter DS, Samiezade-Yazd Z, Champisi JH, Schapiro J, Silverberg MJ.

Internal Medicine



Assessing Glycosylated Hemoglobin Thresholds for Development of Cardiovascular Disease by Racial and Ethnic Groups

Major Finding: Glycosylated hemoglobin (HbA1c) thresholds for predicting major adverse cardiovascular events might differ among racial and ethnic groups, and race- and sex-specific HbA1c thresholds may need to be considered in setting treatment goals.

Published in: J Am Heart Assoc. 2024 May 21;13(10):e033559. doi: 10.1161/JAHA.123.033559. Epub 2024 May 18. PMID: 38761085; PMCID: PMC11179793.

Low CG, Merchant M, Hung YY, Liu YH, Vu J, Pursnani S.

Nephrology



KAISER PERMANENTE®
Biostatistical Consulting Unit, Division of Research
Community Health Program



Amir H. Sabouri, MD, PhD
Lead Author



Siamack Nemazie, MD
Senior Author

Are serum creatine kinase levels indicative of acute kidney injury among patients with exertional rhabdomyolysis?

Acute Kidney Injury in Hospitalized Patients With Exertional Rhabdomyolysis

Major Finding: Among hospitalized patients with exertional rhabdomyolysis, the risk of acute kidney injury was associated with nonsteroidal anti-inflammatory drug use or dehydration, rather than serum creatine kinase levels.

Published in: JAMA Netw Open. 2024 Aug 1;7(8):e2427464. doi: 10.1001/jamanetworkopen.2024.27464. PMID: 39136944; PMCID: PMC11322840.

Sabouri AH, Yurgionas B, Khorasani S, Durant EJ, Kafaie J, Hung YY, Klingman JG, Nemazie S.

Neurology

What are the risks for developing affective and behavior disorders within 4 years after a mild traumatic brain injury?



Richard L. Delmonico, PhD
Lead Author



Lue-Yen S. Tucker, BA
Co-Author



Juliet Haarbauer-Krupa, PhD
Senior Author



KAISER PERMANENTE®
Biostatistical Consulting Unit
Division of Research
Community Health Program

Mild Traumatic Brain Injuries and Risk for Affective and Behavioral Disorders

Major Finding: Sustaining a mild traumatic brain injury significantly increased the risks of developing an affective or behavioral disorder up to 4 years after the injury.

Published in: Pediatrics. 2024 Jan 1;153(2):e2023062340. doi: 10.1542/peds.2023-062340. PMID: 38268428; PMCID: PMC10983778.

Delmonico RL, Tucker LY, Theodore BR, Camicia M, Filanosky C, Haarbauer-Krupa J.

Obstetrics/Gynecology



Evaluation of an Embedded Health Psychologist Intervention for Obstetric Patients With Adverse Childhood Experiences

Major Finding: Pregnant patients with more adverse childhood experiences and lower resilience scores were more likely to be referred to and participate in embedded health psychologist interventions.

Published in: Perm J. 2024 Sep 16; 28(3):144-151. doi: 10.7812/TPP/23.146. Epub 2024 Jun 20. PMID: 38980765; PMCID: PMC11404637.

Watson CR, Wei J, Rios N, Staunton M, Koper A, Shiels J, Lee N, Young-Wolff KC.

Pain Without Prejudice: Examining Disparities in Endometriosis and Pelvic Pain Management Stratified by Race in an Integrative Health Care System

Presented at: Society of Gynecologic Surgeons Annual Scientific Meeting, March 24-27, 2024, and American College of Obstetricians & Gynecologists Annual Clinical and Scientific Meeting, May 17-19, 2024.

Hen E, Childs A, Zaritsky E, Wicks C, Ritterman Weintraub M, Tucker LY.

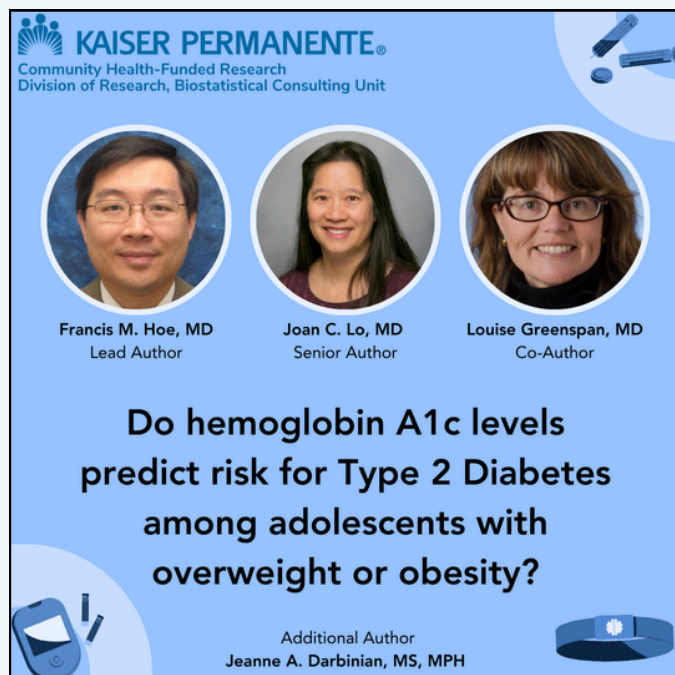
Ophthalmology

Incidence and Predictors of Remission of Childhood Uveitis in a Large Community Cohort

Presented at: Association of Research in Vision and Ophthalmology, May 9, 2024.

Qian Y, Xu RH, Tucker LY, Rabbani J.

Pediatric Endocrinology



Hemoglobin A1c and Type 2 Diabetes Incidence Among Adolescents With Overweight and Obesity

Major Finding: In overweight or obese adolescents, the risk of Type 2 diabetes increased substantially with baseline HbA1c above 6.0%. Furthermore, this risk varied by BMI, age, sex, as well as race and ethnicity.

Published in: JAMA Netw Open. 2024 Jan 2;7(1):e2351322. doi: 10.1001/jamanetworkopen.2023.51322. PMID: 38231515; PMCID: PMC10794942.

Hoe FM, Darbinian JA, Greenspan LC, Lo JC.

Pediatrics



The impact of adenotonsillectomy on healthcare utilization in children with obstructive sleep apnea: Experience of an integrated medical model

Major Finding: Adenotonsillectomy decreased healthcare utilization patterns, particularly in children with severe obstructive sleep apnea.

Published in: Int J Pediatr Otorhinolaryngol. 2024 Jun;181:111987. doi: 10.1016/j.ijporl.2024.111987. Epub 2024 May 20. PMID: 38838474.

Presented at: American Society of Pediatric Otolaryngology, May 15-19, 2024 and Kaiser Permanente East Bay Academy of Medical Educators Research and Scholarship Symposium, May 17, 2024.

Saba ES, Fink D, Schloegel L, Bseikri M.

Cold Cases: Etiologies of hypothermia in infants 0-60 days of age

Presented at: Pediatric Hospital Medicine, August 3, 2024.

Bornstein L, Samiezade-Yazd Z, Nguelyn T, Young B, Greenhow T.

The Prevalence of Bacterial Infection Among Hypothermic Young Infants Presenting Across Care Settings

Presented at: Pediatric Hospital Medicine, August 3, 2024.

Nguyen T, Young B, Bornstein L, Samiezade-Yazd Z, Greenhow T.

Perinatology



The Effect of an Oxytocin Decision Support Checklist on Oxytocin Use and Maternal and Neonatal Outcomes: A Retrospective Cohort Study

Major Finding: Use of an oxytocin decision support checklist was associated with decreased oxytocin use, but longer labor times.

Published in: American Journal of Perinatology. 2024 Feb. DOI: 10.1055/a-2278 9119. PMID: 38423119.

Kandahari N, Tucker LY, Raine-Bennett TR, Palacios J, Schneider AN, Mohta VJ.

Podiatric Surgery



Comparison of Subsequent Surgery After Repair in Bucket-Handle Meniscal Tears and Meniscectomy Analysis of a Large, Contained Cohort Study

Major Finding: Patients who underwent bucket-handle meniscal repair were more likely to undergo subsequent knee surgeries compared to those who underwent meniscectomy.

Published in: Orthop J Sports Med. 2024 Sep 5;12(9):23259671241270355. doi: 10.1177/23259671241270355. PMID: 39247532; PMCID: PMC11378192.

Ding DY, Tucker LY, Vieira AL, Heffner MW.

Additional Research Sponsors

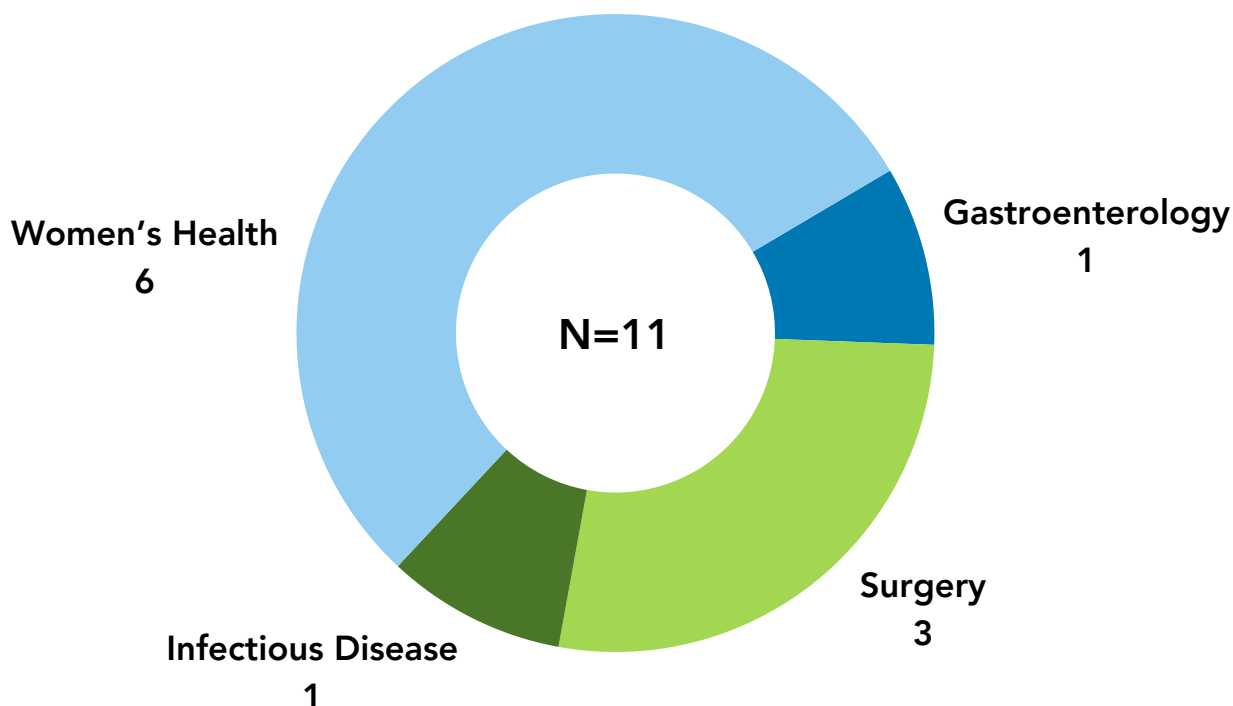
External

- Bayer AG
- Bristol-Myers Squibb
- Elucid Bioimaging Inc.
- Fidelity
- Gilead Sciences
- Grey Family Foundation
- National Institute of Allergy and Infectious Diseases

Internal

- KPNC Early Start Program
- TPMG Physician Researcher Program
- TPMG Women's Health Research

2024 Projects by PI Clinical Specialty



Additional Research Sponsors

Scholarly Products by Clinical Specialty

Infectious Disease

Hypertension control and risk of age-associated dementia in people with hiv infection

Major Finding: Inadequate hypertension control was associated with a greater risk of dementia in people with and without HIV.

Published in: AIDS. 2024 Sep 18. doi: 10.1097/QAD.0000000000004017. Epub ahead of print. PMID: 39291965.

Sponsored by: National Institute of Allergy and Infectious Diseases

Lam JO, Hou CE, Lee C, Samiezade-Yazd Z, Levine T, Horberg MA, Satre DD, Silverberg MJ.

Obstetrics/Gynecology

Incidence of ectopic pregnancy among people seeking and not seeking abortion in a large integrated healthcare delivery system: a case-control study

Presented at: Society of Family Planning, October 20, 2024.

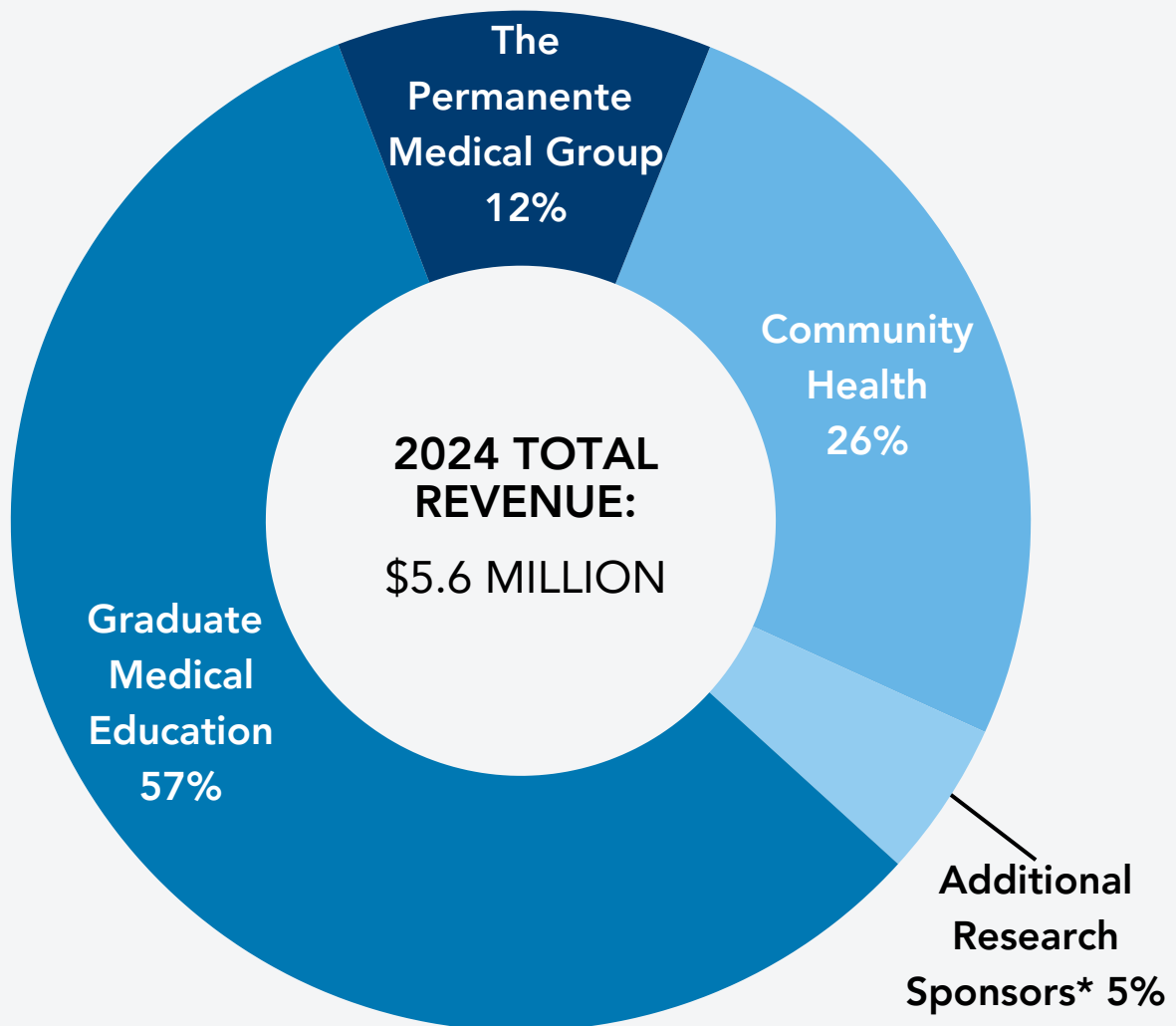
Sponsored by: Fidelity

Biggs A, Armstrong MA, Tucker LY, Kaller S, Rabbani J, Lee J, Chillemi G, Grossman D.



2024 Financial Report

The BSCU is funded by Kaiser Permanente **Graduate Medical Education (GME)** and **Community Health (CH)**, with strategic infrastructure support by **The Permanente Medical Group (TPMG)**. We also develop and implement research funded by additional sponsors*.



***Additional research sponsors:** **external** (Bayer AG, Bristol-Myers Squibb, Elucid Bioimaging Inc., Fidelity, Gilead Sciences, Grey Family Foundation, National Institute of Allergy and Infectious Diseases); **internal** (KPNC Early Start Program, TPMG Physician Researcher Program, TPMG Women's Health Research)

Our Team

Senior Leadership



Juleon Rabbani, DrPH
Director



Lue-Yen Tucker, BA*
Analytical Programming



Ann-Marie Surmava, MBA*
Scientific Research Management



Giulia Chillemi, M.Sc.*
Strategic Program Operations



Tracy Lieu, MD, MPH
Physician Advisor
Medical Education Research

Scientific Research Management



Jean Flores, DrPH, MPH



Sally McBride Allen, BS*



Vaishnavi Sunkari, BSPH

Strategic Program Operations



Jenna Ritchie, BA*



Williams Flores Carrillo, BS



Linda Sancrant, BS

*Manager

Analytical Programming



Zahra Samiezade-Yazd,
MPH*



Kathy Le, MPH



Amanda Jain, MPH



Mahim Naveed, MS



Belia Ordonez Roybal, BA



Matthew Weymer, MPH



Bruce Folck, BS



Mehrnaz Siavoshi, MPH



Chelsea Camara, MPH



Morah Brown, MPH



Cristin Malekian, MPH



Okezi Obrutu, MD, MPH



Deanna Fink, MPH



Tanran Wang, MPH, MPA



Douglas Stram, MS



Yanting Zhao, PhD



Elijah Wade, MPH



Yun-Yi Hung, PhD, MPH

Analysts not pictured: Julia Wei, MPH* and Sophie Jiang, MS
Departed programmers: Lawrence Block, Liisa Lyon, Seiji Matsumoto

*Manager

In Memoriam:
Mary Anne Armstrong
1952-2025



Mary Anne Armstrong, 72, passed away peacefully, surrounded by family in Redondo Beach, California on January 25, 2025.

Mary Anne Armstrong spent the whole of her professional career at Kaiser Permanente Division of Research (DOR). During her 42-year tenure at the DOR, Mary Anne formed and became the Founding Director of the Biostatistical Consulting Unit (BSCU). In this capacity, she provided statistical consultation and research support to over 1,500 clinician researchers of The Permanente Medical Group. She authored more than 85 peer-reviewed scientific publications on a wide-variety of topics, including the association between alcohol use and blood pressure, coronary disease, and stroke; utilization of health services before and after alcohol abuse treatment; neonatal assisted ventilation; and a broad array of women's health topics. Mary Anne also served as a chair of the DOR Local Research Committee. She was a mentor and friend to countless colleagues and collaborators who will remember her tenacious work ethic and positive spirit with admiration and affection. Her impact and legacy will be felt at Kaiser Permanente for years to come.

To view a collection of memories from Mary Anne's work colleagues, visit [here](#):

