

GASTROENTEROLOGY RESEARCH UPDATE

Spring 2021

by the GI specialty group
and TPMG Physician
Researcher Program

WELCOME

to the 2021 edition of the KPNC Gastroenterology and Hepatology Research Update!

Despite the tremendous hardships over the past 18 months due to the Covid pandemic, our GI/Liver research group remains committed to high-quality research endeavors. In this issue, we present our current and recently completed projects led by TPMG Gastroenterologists and Hepatologists. In addition, we are excited to include a new "GI Fellows Corner" to highlight the research activities by our outstanding GI fellows.



A DEEPER LOOK INSIDE THIS UPDATE:

- Research Highlight
- Upcoming Events/Funding
- GI Fellows Corner
- Research Projects Update
- 2021 DDW Accepted Abstracts
- Recent Publications List



Research Highlight:

Early Screening of African Americans (45-50 Years Old) in a Fecal Immunochemical Test - Based Colorectal Cancer Screening Program

Theodore R. Levin, Christopher D. Jensen, Neetu M. Chawla, Lori C. Sakoda, Jeffrey K. Lee, Wei K. Zhao, Molly A. Landau, Ariel Herm, Eryn Eby, Charles P. Quesenberry and Douglas A. Corley

Background & Aims: Some guidelines recommend starting colorectal cancer (CRC) screening before age 50 years for African Americans, but there are few data on screening uptake and yield in this population.

Methods: We performed a prospective study of fecal immunochemical test (FIT) screening among African American members of the Kaiser Permanente Northern California health plan. We compared data from African American members screened when they were 45-50 years old (early screening group) in 2018 with data from previously unscreened African American, white, Hispanic, and Asian/Pacific Islander health plan members who were 51-56 years old. Screening outreach was performed with mailed FIT kits. Logistic regression models, adjusted for sex, were used to evaluate differences among groups in screening uptake, colonoscopy follow-up of abnormal test results, and test yield.

Results: Among 10,232 African Americans in the early screening group who were mailed a FIT, screening was completed by 33.1%. Among the 4% with positive test results, 85.3% completed a follow-up colonoscopy: 57.8% had any adenoma, 33.6% had an advanced adenoma (adenoma with advanced histology or polyp ≥ 10 mm), and 2.6% were diagnosed with CRC. African Americans in the early screening group were modestly more likely to have completed screening than previously unscreened African Americans, whites, and Hispanics 51-56 years old. The groups did not differ significantly in positive results from the FIT (range, 3.8%-4.6%) and more than 74% received a follow-up colonoscopy after a positive test result. The test yields for any adenoma (range, 56.7%-70.7%), advanced adenoma (range, 20.0%-33.6%), and CRC (range, 0%-7.1%) were similar.

Conclusions: Proportions of African Americans who participated in early (aged 45-50 years) FIT screening and test yield were comparable to those of previously unscreened African Americans, whites, Hispanics, and Asian/Pacific Islanders who were 51-56 years old.

[Link to PubMed Abstract](#)



Upcoming Events

1. **Digestive Disease Week.**
May 21-23, 2021.
Virtual Meeting.
2. **ACG Annual Meeting.**
Oct 22-27, 2021.
Las Vegas, NV
3. **The Liver Meeting (AASLD).**
Nov 12-15, 2021.
Virtual Meeting.

Internal Research Resources and Funding Opportunities



[General Funding Opportunities](#)



[Division of Research](#)



[Delivery Science and Applied Research](#)

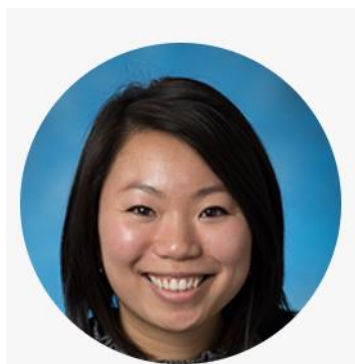
GI Fellows Corner



Jeffrey Lee, MD, MAS - Academic Director of GI Fellowship

My research focuses on the epidemiology of colorectal cancer and colorectal adenomas; optimizing the colorectal cancer screening and surveillance processes through the use of large community-based healthcare databases and informatics; evaluating and improving invasive and non-invasive diagnostic tests for colorectal cancer screening; and pharmacoepidemiology. My current projects, mostly funded by the National Cancer Institute, are focused on evaluating yield and

surveillance colonoscopy; developing and validating a colorectal cancer risk prediction model after initial screening to tailor surveillance; understanding the etiology and drivers of early-onset colorectal cancer; and evaluating surgical trends for the management of benign colorectal polyps. In addition, we were recently funded by TPMG's Delivery Science Program to evaluate different outreach methods for de-implementing outdated surveillance interval recommendations among patients with low-risk adenomas.



Angela Lam, MD - GI Fellow

I am originally from the Bay Area, went to college at Berkeley followed by medical school at UCSF, and did internal medicine residency in Chicago at Northwestern before starting GI fellowship at KP. In residency I worked on research in colonoscopy quality, investigating root causes of interval colorectal cancer and the effect of an ADR-focused quality improvement program on interval CRC rates over time.

My research interests remain in colonoscopy quality as well as CRC screening and prevention, and I am currently working on projects studying the risk of mechanical tumor seeding during colonoscopy and the effect of COVID-19 on colonoscopy surveillance with Dr. Lee and Dr. Corley. I am also interested in healthcare disparities and will evaluate whether the effect of COVID-19 on colonoscopy surveillance disproportionately affected racial/ethnic minorities. Additionally, my QI project is focused on early CRC screening in African American patients at Kaiser SF. My clinical interests also include eosinophilic esophagitis, after having had the opportunity to work with patients referred to Northwestern's eosinophilic esophagitis (EoE) clinic in residency - I am currently working with a dietician on establishing dietary therapy pathways for EoE patients at Kaiser SF. I am also interested in endoscopic resection, ERCP and general GI.



Liat Gutin, MD - GI Fellow

I am originally from the east coast, where I completed my undergraduate and medical education at the University of Maryland. In 2016, I moved to San Francisco to begin my residency at the University of California, San Francisco. I fell in love with the bay area and was fortunate to match at Kaiser Permanente, Northern California for my gastroenterology fellowship, as one of the two inaugural fellows of the program.

My research interests include nutrition in various gastrointestinal disorders, and specifically in inflammatory bowel disease. I am currently working on a project that is applying a screening tool for

malnutrition to the electronic medical record at Kaiser Permanente in order to identify patients with inflammatory bowel disease who are at risk for malnutrition. We are also seeking to determine risk factors for the development of malnutrition and whether certain adverse outcomes are associated with the presence of malnutrition in this patient population. In addition, I have a clinical interest in disorders of gut-brain interaction and am working on a quality improvement project in collaboration with a dietician at KP to create a video on the low FODMAP diet for patients with irritable bowel syndrome to view independently prior to meeting with one of our dieticians.

TPMG Gastroenterology/Hepatology Accepted Abstracts for DDW 2021

ID#	TPMG GI presenter and co-authors	Title	Session Type	Section	Date/Time	Location
3526129	<u>Nizar A. Mukhtar</u> , Weilu Wu, Joanna B. Ready, Suk I. Seo, Brock A. Macdonald, Sreepriya Balasubramanian, Varun Saxena, Julie A. Schmittiel	PREDICTING INDIVIDUALS WITH HEPATITIS C VIRUS CURE WHOSE RISK OF HEPATOCELLULAR CARCINOMA APPROACHES THE GENERAL POPULATION: IMPLICATIONS FOR WHO CAN SAFELY BE DISENROLLED FROM HEPATOCELLULAR CARCINOMA SURVEILLANCE PROTOCOLS	Research Forum	Hepatobiliary Neoplasia	Fri, May 21 11:15 AM	Chat (DDW Virtual)
3517554	<u>Lawrence J. Leung</u> , Gene K. Ma, Howard Y. Chang, Jonathan Svahn, Norio Fukami, Ming-Ming Xu, Steven Lam, Amita Risbud, Jeffrey K. Lee, Terry L. Jue	ESTABLISHMENT OF A POEM SERVICE IN A LARGE INTEGRATED HEALTHCARE SYSTEM	Poster Session	Esophagus Poster Session	Fri, May 21 12:15 PM	ePosters (DDW Virtual)

3524596	<u>Lawrence Jun Leung</u> , Sophie A Merchant, Christopher D. Jensen, Jeffrey K. Lee, Asim Alam, Douglas A. Corley	WORLD ENDOSCOPY ORGANIZATION MODELED ANALYSIS OF POST-COLONOSCOPY COLORECTAL CANCER ETIOLOGIES IN A LARGE INTEGRATED HEALTHCARE SETTING	Research Forum	Improving Colorectal Cancer Screening and Surveillance	Fri, May 21 2:02 PM	Chat (DDW Virtual)
3525310	<u>Rosita van den Puttelaar</u> , Reinier G.S. Meester, Elisabeth Francisca Patricia Peterse Jayin Zheng, Li Hsu, Ann Graham Zauber, Richard B Hayes, Yu-Ru Su, Jeffrey K. Lee, Douglas A. Corley, Ulrike Peters, Iris Lansdorp-Vogelaar	PERSONALIZED SCREENING STRATEGIES FOR COLORECTAL CANCER BASED ON GENETIC AND ENVIRONMENTAL RISK: A COST-EFFECTIVENESS ANALYSIS	Research Forum	Improving Colorectal Cancer Screening and Surveillance	Fri, May 21 2:14 PM	Chat (DDW Virtual)
3525668	<u>Fernando Velayos</u> , Jennifer R Dusendang, Julie A Schmittiel	PREDNISONE, BUT NOT BIOLOGICS OR IMMUNOMODULATORS ARE ASSOCIATED WITH SEVERE COVID-19 OUTCOMES: A COMMUNITY BASED STUDY	Research Forum	Epidemiology and Natural History of IBD	Fri, May 21 5:46 PM	Chat (DDW Virtual)
3470510	<u>Douglas A. Corley</u>	SMART SURVEILLANCE – HOW OFTEN AND HOW TO BETTER RISK STRATIFY	Clinical Symposium	Barrett's Esophagus: What's New From Diagnosis Through Treatment	Sat, May 22 10:38 AM	Live Q&A (DDW Virtual)
3470512	Joel H. Rubenstein, Rebecca C. Fitzgerald, <u>Douglas A. Corley</u> , Nicholas J. Shaheen	LIVE Q&A	Clinical Symposium	Barrett's Esophagus: What's New From Diagnosis Through Treatment	Sat, May 22 11:10 AM	Live Q&A (DDW Virtual)
3522295	<u>Theodore R. Levin</u> , Christopher D. Jensen, Amy R. Marks, Wei K. Zhao, Kevin T. Kao, Dan Li, Jeffrey K. Lee, Joanne E. Schottinger, Nirupa R. Ghai, Richard Contreras, Yi-Fen I Chen,	IMPACT OF THE COVID-19 PANDEMIC ON A LARGE ORGANIZED COLORECTAL CANCER SCREENING PROGRAM BASED ON FECAL IMMUNOCHEMICAL TESTING AND OPPORTUNISTIC COLONOSCOPY	Poster Session	Racial Disparities in GI Cancer/COVID in GI Cancer	Sat, May 22 12:15 PM	ePosters (DDW Virtual)

	Smita Rouillard, Jessica Badalov, Evan Layefsky, Cheryl M. Carlson, Ngoc J. Ho, Douglas A. Corley					
3525988	<u>Sreepriya Balasubramanian</u> , Weilu Wu, Suk I. Seo, Joanna B. Ready, Brock A. Macdonald, Nizar A. Mukhtar, Varun Saxena, Julie A. Schmittiel	PREDICTING INDIVIDUALS WITH HEPATITIS C VIRUS CURE WHOSE RISK OF CIRRHOSIS, DECOMPENSATED CIRRHOSIS OR MORTALITY APPROACHES THE GENERAL POPULATION: IMPLICATIONS FOR WHO CAN SAFELY BE DISCHARGED FROM SPECIALTY CLINIC	Research Forum	Hepatitis C	Sat, May 22 2:15 PM	Chat (DDW Vi
3470252	<u>Douglas A. Corley</u>	GETTING THE MOST OUT OF JOURNALS IN THE SHORTEST PERIOD OF TIME	Clinical Symposium	How to Keep Up With the Latest in GI in Just 15 Minutes a Day	Sat, May 22 3:54 PM	Chat (DDW Virtual)
3521904	<u>Joel H. Rubenstein</u> Trivellore Raghunathan Cecilia Doan, Jennifer L Schneider, Wei K. Zhao, Valbona Metko, Kimberly Nofz, Maryam Khodadost, Douglas A. Corley	VALIDATION OF TOOLS FOR PREDICTING INCIDENT ADENOCARCINOMA OF THE ESOPHAGUS OR ESOPHAGOGASTRIC JUNCTION	Research Forum	Clinical Practice Distinguished Abstract Plenary	Sun, May 23 6:28 PM	Chat (DDW Virtual)
3521312	<u>Gene Kew Ma</u> , Meredith Anderson, Liyan Liu, Dan Li	RISK OF METACHRONOUS ADVANCED NEOPLASIA AFTER ADENOMA DETECTION IN PATIENTS AGED 40-49 YEARS COMPARED TO PATIENTS AGED 50-59 YEARS	Research Forum	Screening and Surveillance in Early Onset Colorectal Cancer	Sun, May 23 6:28 PM	Chat (DDW Virtual)

Active or Recently Completed Funded Research Projects

1. Early follow up after emergency room presentation reduces repeat emergency care in patients with inflammatory bowel disease.
PI: Ben Hassid. Co-I's: Fernando Velayos, Julia Wei
Supported by: Community Benefits Grant
2. Volumetric Laser Endomicroscopy in dysplastic Barrett's esophagus: Can we see the invisible lesions?
PI: Ben Hassid. Co-I's: Samantha Ho, Howard Chang
Supported by: GME (residency) funding
3. Burden of psychiatric co-morbidity in patients presenting to the Emergency department with inflammatory bowel disease
PI: Ben Hassid, Shellie Kahane. Co-I's: Jimmy He
Supported by: GME (residency) funding
4. Colorectal Cancer Risk in Patients with Diverticulitis: Is Routine Colonoscopy Warranted?
PI: Tanaaz Baldawala Co-I's: Dan Li, Christina Lin
Supported by: Community Benefits Grant
5. PREEMPT CRC screening trial. Multicenter study of a multi-omics based blood based screening test.
PI: TR Levin and Aasma Shaukat (UMN) Co-I's: Jeff Fox, Dan Li, Jeff Lee, Ben Hassid
Supported by: Freenome, Inc.
6. PICASO study of pandemic related impact on colorectal cancer screening outcomes.
PI: TR Levin Co-I's: Kevin Kao, Joanne Schottinger, Dan Li, Jeff Lee, Chris Jensen
Supported by: Garfield Foundation
7. Non-alcoholic fatty liver disease and prevalence of associated mortality: NAFLD PAM
PI: TR Levin Co-I: Varun Saxena
Supported by: Community Benefits Grant
8. PREDICT: Predicting advanced neoplasia on surveillance colonoscopy
PI: TR Levin, Co-I's: Jeff Lee, Oleg Sofrygin
Supported by: TPMG Delivery Science Grants Program, Physician Researcher Program, Delivery Science and Applied Research (DARE)

9. De-implementation of Outdated Colonoscopy Surveillance Interval Recommendations Among Patients with Low-risk Adenomas (DESIRE)
PI: Jeff Lee Co-I's: TR Levin, Jeff Fox
Supported by: TPMG Delivery Science Grants Program, Delivery Science and Applied Research (DARE)
10. Risk of Metachronous Advanced Neoplasia After Colonoscopy in Patients Aged 40-49 Years Compared to Patients Aged 50-59 Years
PI: Gene Ma, Co-I: Dan Li
Supported by: Community Benefits Grant
11. Incidence of Serrated Polyps in Patients Aged 40-49 Years and Associated Risk for Metachronous Advanced Neoplasia
PI: Gene Ma. Co-I's: Dan Li and Priyanka Pillai
Supported by: Community Benefits Grant and GME funding
12. Optimization of Diagnosis of Serrated Polyps of the Colorectum among KPNC Gastroenterologists and Pathologists.
PI: Dan Li. Co-I: Lisa Herrinton
Supported by: Physician Researcher Program, Delivery Science and Applied Research (DARE)
13. Comparison of Risk factors, Clinical Characteristics, Screening performance, and Survival of Microsatellite Stable vs. Unstable Colorectal Cancers in a Large U.S. Population
PI: Dan Li. Co-I's: Doug Corley, TR Levin, Jeffrey K Lee, Minggu Pan
Supported by: Community Benefits Grant
14. The Incidence of Gastric Adenocarcinoma after Helicobacter pylori Eradication Therapy in a Large U.S. Population.
PI: Dan Li. Co-I: Doug Corley.
Supported by: Community Benefits Grant
15. Effectiveness of screening for colorectal cancer in average risk adults: Colonoscopy vs. FIT (SCOLAR 2)
PI: Doug Corley
Supported by: National Cancer Institute
16. Optimizing Colorectal Cancer Screening PREcision and Outcomes in Community-Based Populations (PRECISE)
Lead PI: Doug Corley Co-I: TR Levin
Supported by: National Cancer Institute
17. Validation of the MeScore
PI: Doug Corley
Supported by: Medial EarlySign Research

18. Cardiovascular Mortality after Azithromycin versus Amoxicillin Prescription: Pilot Feasibility Study
PI: Jon Zaroff Co-I: Doug Corley
Supported by: Pfizer
19. System-Level Capture of Family History Data to Assess Risk of Cancer and Provide Longitudinal Care Coordination
PI: Doug Corley
Supported by: Patient Centered Outcomes Research Institute (PCORI)
20. SARS-CoV-2 Serological Antibody Testing for Disease Surveillance and Clinical Use
PI: Jacek Skarbinski Co-I: Doug Corley
Supported by: National Cancer Institute
21. Colorectal cancer screening decisions based on predicted risk: the PREcision ScreENing randomized controlled Trial (PRESENT)
PI: Jeff Lee Co-I: Doug Corley
Supported by: National Cancer Institute
22. Prednisone, but not biologics or immunomodulators are associated with severe COVID-19 outcomes: A community-based study
PI: Fernando Velayos, Jennifer Dusendang, Julie Schmittziel
23. Optimization of Hepatocellular Carcinoma Surveillance Protocols
Co-I's: Varun Saxena, Julie Schmittziel
Supported by: Delivery Science Grants Program, Delivery Science and Applied Research (DARE)
24. An Organized Hepatitis B Surveillance Program increases Patient Identification and Optimizes Management
Co-I's: Krisna Chai, Joanna Ready, Andy Avins
Supported by: Rapid Analytics Unit, Delivery Science and Applied Research (DARE)
25. Covid-19 Complications Are Not More Common Among Immunosuppressed Populations in KPNC
Co-I's: Fernando Velayos, Julie Schmittziel
Supported by: Rapid Analytics Unit, Delivery Science and Applied Research (DARE)
26. Telemedicine (Compared to in-Person Gastroenterology Visits) Had High Patient Satisfaction and Comparable Physician Decision-Making
Co-I's: Craig Munroe, Doug Corley
Supported by: Rapid Analytics Unit, Delivery Science and Applied Research (DARE)

27. Predicting Serious Colonic Growths to Risk Stratify People Coming Due for Surveillance Colonoscopy
PI: TR Levin, Co-I: Jeff Lee
Supported by: Physician Researcher Program, Delivery Science and Applied Research (DARE)
28. Improving health outcomes and reducing healthcare costs in individuals with Helicobacter pylori infection, in a large, community-based population
PI: Dan Li, Co-I: Doug Corley
Supported by: Physician Researcher Program, Delivery Science and Applied Research (DARE)
29. Benefits of Hepatitis C Cure
PI: Varun Saxena, Co-I: Nizar Mukhtar, Sreepriya Balasubramanian
Supported by: Rapid Analytics Unit, Delivery Science and Applied Research (DARE)
30. Hepatocellular Carcinoma Biomarker Study with Glycotest®
PI: Varun Saxena, Co-Is: Nizar Mukhtar, Sreepriya Balasubramanian
Supported by: Glycotest
31. Retreatment of Hepatitis C Infection in Patients who Previously Failed Sofosbuvir/Velpatasvir/Voxilepravir
PI: Varun Saxena
Collaboration with KPSC and UCSF
32. Risk of Hepatocellular Carcinoma in Patients with Isolated Anti-Hepatitis B Core Antibody Positivity: Implications for Surveillance
PI: Jamila Champsi, Co-I's: Varun Saxena, Joanna Ready
Supported by: Community Benefits Grant
33. Evaluation of hepatocellular carcinoma management practices and patient survival within the Kaiser Permanente Northern California health care system to identify disparities in disease severity and outcomes based on sex, race/ethnicity, socioeconomic status, and geographic location
PI: Nizar Mukhtar, Co-I: Varun Saxena
34. Sarcopenia and Frailty Among Liver Transplant Recipients
PI: Sreepriya Balasubramanian, Co-I: Joanna Ready
35. Reproductive Health Following Liver Transplant
PI: Sreepriya Balasubramanian
Collaboration with UCSF
36. International Travel for Liver and/or Kidney Transplantation

PI: Joanna Ready, Co-I: Varun Saxena
Collaboration with UCSF

37. Identifying the Determinants and Incidence of Colorectal Neoplasia after a Negative Colonoscopy in Patients with Inflammatory Bowel Disease

PI: Fernando Velayos Co-I: Doug Corley

Supported by: Community Benefits Grants

38. Prior immunosuppressive therapy and severe illness among patients diagnosed with SARS-CoV-2: a community-based study

PI: Fernando Velayos Co-I's: Julie Schmittiel, Jennifer Dusendang

Supported by: Delivery Science and Applied Research (DARE)

39. Contemporary Probability of Occult Colorectal Cancer in Patients with Colitis-Related Dysplasia undergoing Colectomy

PI: Fernando Velayos Co-I: Eshan Boparai

Supported by: KPNC Fellowship Funds

40. A phase III, randomised, double blind, parallel group, placebo controlled, multicentre study to assess efficacy and safety of adult allogeneic expanded adipose-derived stem cells (eASCs) for the treatment of complex perianal fistulising Crohn's disease over a period of 24 weeks and a follow-up period up to 52 weeks.

Site PI: Fernando Velayos

Supported by: Takeda Pharmaceuticals

Publications or other Scholarly Work Co-authored by KPNC Gastroenterologists and Hepatologists (2020 - April, 2021)

1. Archambault AN, Su YR, Jeon J, Thomas M, Lin Y, Conti DV, Win AK, Sakoda LC, Lansdorp-Vogelaar I, Peterse EFP, Zauber AG, Duggan D, Holowatyj AN, Huyghe JR, Brenner H, Cotterchio M, Bézieau S, Schmit SL, Edlund CK, Southey MC, MacInnis RJ, Campbell PT, Chang-Claude J, Slattery ML, Chan AT, Joshi AD, Song M, Cao Y, Woods MO, White E, Weinstein SJ, Ulrich CM, Hoffmeister M, Bien SA, Harrison TA, Hampe J, Li CI, Schafmayer C, Offit K, Pharoah PD, Moreno V, Lindblom A, Wolk A, Wu AH, Li L,

Gunter MJ, Gsur A, Keku TO, Pearlman R, Bishop DT, Castellví-Bel S, Moreira L, Vodicka P, Kampman E, Giles GG, Albanes D, Baron JA, Berndt SI, Brezina S, Buch S, Buchanan DD, Trichopoulou A, Severi G, Chirlaque MD, Sánchez MJ, Palli D, Kühn T, Murphy N, Cross AJ, Burnett-Hartman AN, Chanock SJ, de la Chapelle A, Easton DF, Elliott F, English DR, Feskens EJM, FitzGerald LM, Goodman PJ, Hopper JL, Hudson TJ, Hunter DJ, Jacobs EJ, Joshi CE, Küry S, Markowitz SD, Milne RL, Platz EA, Rennert G, Rennert HS, Schumacher FR, Sandler RS, Seminara D, Tangen CM, Thibodeau SN, Toland AE, van Duijnhoven FJB, Visvanathan K, Vodickova L, Potter JD, Männistö S, Weigl K, Figueiredo J, Martín V, Larsson SC, Parfrey PS, Huang WY, Lenz HJ, Castelao JE, Gago-Dominguez M, Muñoz-Garzón V, Mancao C, Haiman CA, Wilkens LR, Siegel E, Barry E, Younghusband B, Van Guelpen B, Harlid S, Zeleniuch-Jacquotte A, Liang PS, Du M, Casey G, Lindor NM, Le Marchand L, Gallinger SJ, Jenkins MA, Newcomb PA, Gruber SB, Schoen RE, Hampel H, **Corley DA**, Hsu L, Peters U, Hayes RB. Cumulative Burden of Colorectal Cancer-Associated Genetic Variants Is More Strongly Associated With Early-Onset vs Late-Onset Cancer. *Gastroenterology*. 2020 Apr;158(5):1274-1286.e12. doi: 10.1053/j.gastro.2019.12.012. Epub 2019 Dec 19. PMID: 31866242; PMCID: PMC7103489.

2. Belghazi K, Marcon N, Teshima C, Wang KK, Milano RV, Mostafavi N, Wallace MB, Kandel P, Mejía Pérez LK, Bourke MJ, Bahin F, Everson MA, Haidry R, Ginsberg GG, **Ma GK**, Koch AD, Ragonath K, Ortiz-Fernandez-Sordo J, di Pietro M, Seewald S, Weusten BL, Schoon EJ, Bisschops R, Bergman JJ, Pouw RE. Risk factors for serious adverse events associated with multiband mucosectomy in Barrett's esophagus: an international multicenter analysis of 3827 endoscopic resection procedures. *Gastrointest Endosc*. 2020 Aug;92(2):259-268.e2. doi: 10.1016/j.gie.2020.03.3842. Epub 2020 Mar 30. PMID: 32240684.
3. Boparai ES, **Velayos FS, Roy A**, Li C, Alkoraishi AS, **Munroe CA**. Elevating the Technique: Resecting Complex Dysplastic Lesions of the Colon in Patients with Inflammatory Bowel Disease. *Dig Dis Sci*. 2020 Jan;65(1):78-81. doi: 10.1007/s10620-019-05931-w. PMID: 31705343.
4. Calcaterra SL, Burnett-Hartman AN, Powers JD, **Corley DA**, McMullen CM, Pawloski PA, Feigelson HS. A population-based survey to assess the association between cannabis and quality of life among colorectal cancer survivors. *BMC Cancer*. 2020 May 3;20(1):373. doi: 10.1186/s12885-020-06887-1. PMID: 32362277; PMCID: PMC7197173.
5. Callahan CL, Schwartz K, **Corley DA**, Ruterbusch JJ, Zhao WK, Shuch B, Graubard BI, Rothman N, Chow WH, Silverman DT, Purdue MP, Hofmann JN. Understanding racial disparities in renal cell carcinoma incidence: estimates of population attributable risk in two US populations. *Cancer Causes Control*. 2020 Jan;31(1):85-93. doi: 10.1007/s10552-019-01248-1. Epub 2019 Nov 28. PMID: 31782041; PMCID: PMC7717618.

6. Cao C, Kong MX, Kapali M, **Moezardalan K**, Shi Q, Azarm A, Lai J. EGFR Mutated Lung Adenocarcinoma Metastasis to the Pancreas Mimicking Primary Pancreatic Ductal Carcinoma. *Anticancer Res.* 2020 Aug;40(8):4401-4404. doi: 10.21873/anticancerres.14444. PMID: 32727769.
7. Cao C, Parikh P, **Moezardalan K**, Anantharaman A, Azarm A, Lai J. Synchronous Primary Pancreatic Ductal Carcinoma and Colonic Adenocarcinoma Present in a Patient With History of Skin Squamous Cell Carcinoma. *Anticancer Res.* 2020 Jul;40(7):4029-4032. doi: 10.21873/anticancerres.14398. PMID: 32620648.
8. Carwana H, Hoodfar E, Bergoffen J, **Li D**. Efficacy of paired tumor and germline testing in evaluation of patients with Lynch-like syndrome in a large integrated healthcare setting. *Fam Cancer.* 2020 Nov 20. doi: 10.1007/s10689-020-00218-w. Epub ahead of print. PMID: 33215268.
9. **Corley DA**, Peek RM Jr, Simpson BA. Paradigm-Shifting Research in Gastroenterology, Hepatology, and Nutrition: A Top 20 List of Articles Published in 2020. *Gastroenterology.* 2021 Mar;160(4):979-981. doi: 10.1053/j.gastro.2021.01.023. Epub 2021 Jan 14. PMID: 33548197.
10. **Corley DA**, Peek RM. COVID-19: What Should Clinicians and Scientists Do and When? *Gastroenterology.* 2020 Jun;158(8):2020-2023. doi: 10.1053/j.gastro.2020.03.026. Epub 2020 Mar 19. PMID: 32439274; PMCID: PMC7270559.
11. National Cancer Institute's PROSPR Consortium, **Corley DA**, Sedki M, Ritzwoller DP, Greenlee RT, Neslund-Dudas C, Rendle KA, Honda SA, Schottinger JE, Udaltsova N, Vachani A, Kobrin S, Li CI, Haas JS. Cancer Screening During the Coronavirus Disease-2019 Pandemic: A Perspective From the National Cancer Institute's PROSPR Consortium. *Gastroenterology.* 2021 Mar;160(4):999-1002. doi: 10.1053/j.gastro.2020.10.030. Epub 2020 Oct 21. PMID: 33096099; PMCID: PMC7575503.
12. Dekker E, Chiu HM, Lansdorp-Vogelaar I; WEO Colorectal Cancer Screening Committee. Colorectal Cancer Screening in the Novel Coronavirus Disease-2019 Era. *Gastroenterology.* 2020 Dec;159(6):1998-2003. doi: 10.1053/j.gastro.2020.09.018. Epub 2020 Sep 20. PMID: 32966824; PMCID: PMC7502254.
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