

CURRICULUM VITAE

Zachary Smith DO

Associate Professor
Department of Medicine
Division of Gastroenterology

OFFICE ADDRESS:

Hub for Collaborative Medicine
8701 Watertown Plank Road
Milwaukee, WI 53226

EDUCATION:

08/01/2001 - 08/08/2005 B.S., Michigan State University (Honors College), East Lansing, MI
08/01/2005 - 05/08/2009 D.O., Michigan State University College of Osteopathic Medicine, East Lansing, MI
10/03/2022 - Present MSc., University of Oxford, United Kingdom

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

07/01/2009 - 06/30/2012 Residency in Internal Medicine, University of Chicago (NorthShore), Evanston, IL
07/01/2012 - 06/30/2013 Chief Resident - Internal Medicine, University of Chicago (NorthShore), Evanston, IL
07/01/2013 - 06/30/2016 Fellowship in Gastroenterology and Hepatology, Medical College of Wisconsin, Milwaukee, WI
07/01/2016 - 06/30/2017 Fellowship in Interventional Endoscopy, Washington University School of Medicine, St. Louis, MO

FACULTY APPOINTMENTS:

07/01/2012 - 06/30/2013 Clinician Educator, Medicine, University of Chicago Pritzker School of Medicine, Chicago, IL
07/01/2016 - 06/30/2017 Instructor of Medicine, Gastroenterology, Washington University School of Medicine, St. Louis, MO
08/01/2017 - 06/15/2020 Assistant Professor of Medicine, Gastroenterology and Liver Disease, Case Western Reserve University School of Medicine, Cleveland, OH
07/01/2020 - 06/30/2022 Assistant Professor of Medicine, Gastroenterology and Hepatology, Medical College of Wisconsin, Milwaukee, WI
07/01/2022 - Present Associate Professor of Medicine, Gastroenterology and Hepatology, Medical College of Wisconsin, Milwaukee, WI

ADMINISTRATIVE APPOINTMENTS:

07/01/2020 - Present Associate Section Chief, Gastroenterology and Hepatology, Clement J. Zablocki VA Medical Center, Milwaukee, WI
02/01/2021 - Present Clinical Lead, Gastroenterology and Hepatology, Great Lakes VA Healthcare System (VISN 12)
04/01/2022 - Present Associate Chief, Director of Clinical Research, Gastroenterology and Hepatology, Medical College of Wisconsin

EDUCATIONAL ADMINISTRATIVE APPOINTMENTS:

07/01/2020 - Present Co-Director, Advanced Endoscopy Fellowship, Medical College of Wisconsin, Milwaukee, WI
10/09/2020 - Present Course Director - MEDI D4132 Gastroenterology, Medical College of Wisconsin, Milwaukee, WI

HOSPITAL AND CLINICAL ADMINISTRATIVE APPOINTMENTS:

12/01/2018 - 06/15/2020 Co-Director, University Hospitals Comprehensive Pancreas Cyst Program, Cleveland, OH
 10/01/2020 - Present Director of Quality, Gastroenterology and Hepatology, Medical College of Wisconsin, Milwaukee, WI

RESEARCH ADMINISTRATIVE APPOINTMENTS:

2022 - Present Associate Chief, Director of Clinical Research, Department of Medicine, Gastroenterology and Hepatology, Medical College of Wisconsin, 8701 Watertown Plank Rd, Milwaukee, WI

HOSPITAL STAFF PRIVILEGES:

07/01/2012 - 06/30/2013 Attending Physician, NorthShore University HealthSystem, Evanston, IL
 07/01/2016 - 06/30/2017 Attending Physician, Barnes Jewish Hospital, St. Louis, MO
 08/01/2017 - 06/15/2020 Attending Physician, University Hospitals Cleveland Medical Center, Cleveland, OH
 08/01/2017 - 06/15/2020 Attending Physician, University Hospitals Ahuja Medical Center, Beachwood, OH
 07/01/2020 - Present Attending Physician, Froedtert Hospital, Milwaukee, WI
 07/01/2020 - Present Attending Physician, Clement J. Zablocki VA Medical Center, Milwaukee, WI

SPECIALTY BOARDS AND CERTIFICATION:

<u>Board Certified</u>	<u>Issue Date</u>	<u>Expiration</u>
American Board of Internal Medicine	08/15/2012	08/15/2022
American Board of Internal Medicine - Gastroenterology	11/01/2016	11/01/2026

<u>Licensure</u>	<u>Number</u>	<u>Issue Date</u>	<u>Expiration</u>
State of Illinois	036129294	11/29/2011	07/31/2014
State of Wisconsin	60377-21	03/22/2013	10/31/2023
State of Missouri	2016007352	03/05/2016	01/31/2018
State of Ohio	034.012657	02/21/2017	01/01/2022

AWARDS AND HONORS:

08/01/2001 - 05/08/2005 Honors College, Michigan State University
 08/01/2001 - 05/08/2005 Dean's List, Michigan State University
 2015 Fellowship2Leadership Travel Award, Salix
 2016 Top Reviewer, Gastrointestinal Endoscopy
 2016 Healio Gastroenterology 200: Innovators in Gastroenterology and Hepatology, Healio
 2018 Top Reviewer, Gastrointestinal Endoscopy
 2019 - 2020 Young Physician Leadership Scholar, American College of Gastroenterology
 2019 Presidential Poster Award, American College of Gastroenterology
 08/01/2021 - Present Clinical Research Scholars Program - Scholar, CTSI of Southeast Wisconsin
 2021 Presidential Plenary Award - DDW, American Society for Gastrointestinal Endoscopy
 05/22/2022 Distinguished Abstract Plenary - DDW, American Gastroenterological Association

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

2005 - 2013 American Osteopathic Association (AOA) (Member)
 2009 - 2016 American College of Physicians (Member)
 2012 - 2013 Alliance for Academic Internal Medicine (AAIM) (Member)
 2013 - Present American Gastroenterological Association (AGA) (Member)
 2013 - Present American Society of Gastrointestinal Endoscopy (ASGE) (Member)
 2013 - Present American College of Gastroenterology (ACG) (Member)

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Editorial Board

12/01/2016 - 03/31/2022 Editorial Review Board, Gastrointestinal Endoscopy

02/01/2019 - 07/01/2020 Social Media Board, Gastrointestinal Endoscopy

Ad-Hoc Reviewer

Clinical Gastroenterology and Hepatology

ACG Case Reports Journal

VideoGIE

Gastroenterology Research and Practice

Gastrointestinal Endoscopy

World Journal of Gastroenterology

British Medical Journal

LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

07/01/2012 - 06/30/2013 Member, Resident Quality Assurance Committee, University of Chicago (NorthShore)

07/01/2012 - 06/30/2013 Member, Education Quality Assurance Committee, University of Chicago (NorthShore)

07/01/2012 - 06/30/2013 Member, Program Evaluation Committee, University of Chicago (NorthShore)

07/01/2012 - 06/30/2013 Member, Translational Quality Assurance Committee, University of Chicago (NorthShore)

07/01/2012 - 06/30/2013 Member, Resident Recruitment Committee, University of Chicago (NorthShore)

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

2015 - 2019 Member, Training Committee, American College of Gastroenterology (ACG)

2015 - 2016 Member, Technology Committee, American Society of Gastrointestinal Endoscopy (ASGE)

2018 - Present Member, Practice Parameters (Guidelines) Committee, American College of Gastroenterology (ACG)

2019 - 2022 Member, Publications Committee, American Society of Gastrointestinal Endoscopy (ASGE)

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Peer Review

Title: Stent vs. Indomethacin for Preventing Post-ERCP Pancreatitis (SVI)

Source: U01DK104833-01

Role: Co-Investigator (MCW Site PI)

PI: B. Joseph Elmunzer, MD, MSc

Dates: 07/01/2016 - 06/30/2022

Direct Funds: \$1,886,003

Title: Cold endoscopic resection of large colorectal polyps: A randomized trial (NCT03865537)

Role: Co-Investigator (Zablocki VAMC Site-PI)

PI: Heiko Pohl, MD

Dates: 11/02/2021 - Present

Prior

Peer Review

Title: Airway Management During ECRP and the Effect on Complications and Procedure Outcomes

Source: Washington University Institute for Clinical and Translational Sciences

(ICTS) Core Usage Pilot Grant
Role: Principal Investigator
Dates: 01/2016 - 06/2017
Direct Funds: \$4,960

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

Local

- Smith ZL, Radiofrequency ablation for Barrett's esophagus: High grade or all?, Washington University School of Medicine Galaxy of Gastroenterology, St. Louis, MO, 10/28/2016
- Smith ZL, Implantable Space-Filling Endoscopic Weight Loss Techniques, UH/Case Western Department of Surgery: Endoscopic Techniques in Bariatric Surgery, Cleveland, OH, 01/25/2018
- Smith ZL, Endoscopic options for weight re-gain after bariatric surgery, UH/Case Western Department of Surgery: Endoscopic Techniques in Bariatric Surgery., Cleveland, OH, 01/25/2018
- Smith ZL, Recognizing post-operative bariatric anatomy, UH/Case Western Department of Surgery: Endoscopic Techniques in Bariatric Surgery, Cleveland, OH, 01/25/2018
- Smith ZL, Duodenoscope-associated transmission of multi-drug resistant organisms: What happened, what is being done, and where do we go from here?, North Coast Ohio Society of Gastroenterology Nurses and Associates (SGNA) Fall Meeting, Cleveland, OH, 11/10/2018
- Smith ZL, Classification, diagnosis, and management of pancreatic fluid collections, MCW Department of Medicine Grand Rounds, Milwaukee, WI, 01/24/2021
- Smith ZL, Peptic Ulcer Disease, Internal Medicine Resident Academic Lecture Series, Medical College of Wisconsin, Milwaukee, WI, 11/17/2021

Regional

- Smith ZL, Non-invasive colon cancer screening: Where do we stand in 2018?, American College of Gastroenterology (ACG) 2018 Midwest Regional Postgraduate Course, Indianapolis, IN, 08/25/2018 - 08/26/2018
- Smith ZL, The Hot Seat: Challenging Cases of Pancreatic Cystic Neoplasms – Are the Newest Guidelines Helpful?, American College of Gastroenterology (ACG) 2018 Midwest Regional Postgraduate Course, Indianapolis, IN, 08/25/2018 - 08/26/2018
- Smith ZL, The Role of Interventional Endoscopy in Pancreatic Cancer, Talks with the Experts: A Pancreatic Cancer Patient Lecture Series (Virtual), Medical College of Wisconsin, Milwaukee, WI, 11/09/2021

National

- Smith ZL, Hands-On Endoscopy Course, American College of Gastroenterology Second-Year Fellow Course, Washington D.C., 01/18/2018 - 01/20/2018
- Smith ZL, Endoscopic Therapy for Barrett's Esophagus, Washington University School of Medicine 12th Hands-on Advanced Endoscopy Fellows Course, St. Louis, MO, 08/23/2018
- Moderator, Washington University School of Medicine 12th Annual St. Louis Live Therapeutic Endoscopy Course, St. Louis, MO, 08/24/2018
- Smith ZL, Cholangioscopy for navigation and palliation of an eccentric, post-transplant, biliary anastomotic stricture, Case Western Reserve University School of Medicine Advanced Endoscopy Fellow Course, Cleveland, OH, 09/14/2018 - 09/15/2018
- Course Director, American College of Gastroenterology Second-Year Fellow Course, Washington D.C., 01/18/2019 - 01/20/2019
- Smith ZL, Throw me for a loop: Ansa pancreatica and minor papilla cannulation techniques, Case Western Reserve University School of Medicine Advanced Endoscopy Fellow Course, Cleveland, OH, 09/06/2019 - 09/07/2019
- Smith ZL, Moderator and Panelist, American Society for Gastrointestinal Endoscopy (ASGE). "Terrible Twos: How to Navigate and Steer Your Career.", Webinar, 09/16/2020
- Smith, ZL, CONSENSUS-BASED DEVELOPMENT OF A CAUSAL ATTRIBUTION SYSTEM FOR POST-ERCP ADVERSE EVENTS, Digestive Disease Week, San Diego, CA, 05/21/2022
- Smith, ZL, INCIDENCE OF ESOPHAGEAL ADENOCARCINOMA, MORTALITY AND ESOPHAGECTOMY IN BARRETT'S ESOPHAGUS PATIENTS UNDERGOING ENDOSCOPIC ERADICATION THERAPY: RESULTS FROM A LARGE ELECTRONIC HEALTH RECORD DERIVED DATASET, Digestive Disease Week, San Diego, CA, 05/24/2022

Invited Faculty, ASGE First-Year Fellow Course, Downers Grove, IL, 07/29/2022 - 07/30/2022

International

Smith ZL, Management of Bleeding, Strictures and Fistulae After Bariatric Surgery, SAGES and ASMBS Update in Bariatric Endoscopy, International Webinar (Registrants from 19 countries), 10/11/2018
Smith ZL, Learning to use over-the-scope clips for perforations and fistulas, Digestive Disease Week, San Diego, CA, 05/21/2022

MEDICAL COLLEGE TEACHING ACTIVITIES:

Medical Student Education

2013 Bench-to-Bedside Instructor. Gastroenterology section.
2015 Bench-to-Bedside Instructor. Gastroenterology section.

Resident and Fellow Education

07/01/2020 - Present GI Consult Service Teaching Attending, Zablocki VA Medical Center
09/30/2020 Fellow Board Review: Endoscopic Mucosal Resection of Large Colorectal Polyps
10/07/2020 Fellow Board Review: Endoscopy in the Surgically-Altered Foregut
11/17/2021 Lecture on Peptic Ulcer Disease for IM Resident Academic Half-Day

EXTRAMURAL TEACHING:

Resident and Fellow Education

07/16/2016 Washington University School of Medicine, Endoscopic Applications in GI Disorders: Hands on lab
01/31/2017 Smith ZL. Chronic pancreatitis. Washington University GI Fellow Core Conference.
08/01/2017 - 06/15/2020 University Hospitals Cleveland Medical Center, Inpatient GI and Consult Service Teaching Attending.
05/17/2018 Smith ZL. Update in Endoscopic Bariatrics. UH/CWRU GI Fellow Conference.
02/22/2019 Smith ZL. Diagnostic and Interventional Endoscopic Ultrasound. UH/CWRU Radiology Resident Lecture Series
03/22/2019 Smith ZL. Upper endoscopy in the surgically-altered foregut. UH/CWRU GI Fellow Conference
09/28/2019 Smith ZL. Chronic pancreatitis: The Basics UH/CWRU Family Medicine Resident Lecture Series.

PROGRAMMATIC DEVELOPMENTS:

Clinical Programs

12/01/2018 - 06/15/2020 University Hospitals Comprehensive Pancreatic Cyst Program: Co-Founder.

DIGITAL MEDIA CONTENT CREATION AND CONTRIBUTIONS:

I am an integral member of an international community of gastroenterologists, interventional endoscopists, and endoscopic surgeons who use Twitter to educate peers, and disseminate research, clinical case queries and other related information. My Twitter profile (@ZachSmithGI) has over 2,100 followers from 65 different countries on 6 continents.

SOCIAL MEDIA EDUCATIONAL CONTENT:

12/19/2019 - 01/01/2022 Faculty Advisory Board - Advanced Endoscopy and Pancreaticobiliary section of GI Journal Club. This is a weekly GI "journal club" hosted on Twitter with over 3,800 followers. <https://twitter.com/GiJournal>
03/18/2020 Moderator and expert commentator for "GI Journal Club: GI Endoscopy and the COVID19 Pandemic." March 18, 2020. This was an "online journal club and forum" discussing endoscopy in the

COVID-19 pandemic. There were 82 participants from 14 countries on 3 continents.
<https://twitter.com/GiJournal/status/1240443207164596224?s=20>
04/01/2020 - 01/01/2022 Editorial board and expert contributor for #ScopingSundays. This is a weekly endoscopy-based education platform on Twitter designed for clinical and advanced endoscopy fellows.
<https://twitter.com/ScopingSundays>

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Ehrenpreis ED, Sifuentes H, Ehrenpreis JE, **Smith ZL**, Marshall ML. Suboptimal reporting of adverse medical events to the FDA Adverse Events Reporting System by nurse practitioners and physician assistants. *Expert Opin Drug Saf.* 2012 Mar;11(2):177-83.
2. **Smith ZL**, Sifuentes H, Deepak P, Ecanow DB, Ehrenpreis ED. Relationship between mesenteric abnormalities on computed tomography and malignancy: clinical findings and outcomes of 359 patients. *J Clin Gastroenterol.* 2013;47(5):409-14.
3. **Smith ZL**, Oh YS, Saeian K, Edmiston CE Jr, Khan AH, Massey BT, Dua KS. Transmission of carbapenem-resistant Enterobacteriaceae during ERCP: time to revisit the current reprocessing guidelines. *Gastrointest Endosc.* 2015 Apr;81(4):1041-5.
4. ASGE Technology Committee, Thosani N, Abu Dayyeh BK, Sharma P, Aslanian HR, Enestvedt BK, Komanduri S, Manfredi M, Navaneethan U, Maple JT, Pannala R, Parsi MA, **Smith ZL**, Sullivan SA, Banerjee S. ASGE Technology Committee systematic review and meta-analysis assessing the ASGE Preservation and Incorporation of Valuable Endoscopic Innovations thresholds for adopting real-time imaging-assisted endoscopic targeted biopsy during endoscopic surveillance of Barrett's esophagus. *Gastrointest Endosc.* 2016 Apr;83(4):684-98.e7.
5. ASGE Technology Committee, Pannala R, Abu Dayyeh BK, Aslanian HR, Enestvedt BK, Komanduri S, Manfredi M, Maple JT, Navaneethan U, Parsi MA, **Smith ZL**, Sullivan SA, Thosani N, Banerjee S. Per-oral endoscopic myotomy (with video). *Gastrointest Endosc.* 2016 Jun;83(6):1051-60.
6. ASGE Technology Committee, Komanduri S, Thosani N, Abu Dayyeh BK, Aslanian HR, Enestvedt BK, Manfredi M, Maple JT, Navaneethan U, Pannala R, Parsi MA, **Smith ZL**, Sullivan SA, Banerjee S. Cholangiopancreatography. *Gastrointest Endosc.* 2016 Aug;84(2):209-21.
7. **Smith ZL**, Daniel KE, Pant M, Dua KS, Aburajab M. Invasive intraductal papillary carcinoma of the bile duct masquerading as a common hepatic duct stone. *VideoGIE.* 2016 Dec;1(4):68-69. PMID: PMC5990414
8. ASGE Technology Committee, Parsi MA, Sullivan SA, Goodman A, Manfredi M, Navaneethan U, Pannala R, **Smith ZL**, Thosani N, Banerjee S, Maple JT. Automated endoscope reprocessors. *Gastrointest Endosc.* 2016 Dec;84(6):885-892.
9. ASGE Technology Committee, Maple JT, Pannala R, Abu Dayyeh BK, Aslanian HR, Enestvedt BK, Goodman A, Komanduri S, Manfredi M, Navaneethan U, Parsi MA, **Smith ZL**, Thosani N, Sullivan SA, Banerjee S. Interventional EUS (with videos). *Gastrointest Endosc.* 2017 Mar;85(3):465-481.
10. ASGE Technology Committee, Hwang JH, Aslanian HR, Thosani N, Goodman A, Manfredi M, Navaneethan U, Pannala R, Parsi MA, **Smith ZL**, Sullivan SA, Banerjee S, Maple JT. Devices for use with EUS. *VideoGIE.* 2017 Mar;2(3):35-45. PMID: PMC5990542
11. **Smith ZL**, Gonzaga JE, Haasler GB, Gore EM, Dua KS. Self-Expanding Metal Stents Improve Swallowing and Maintain Nutrition During Neoadjuvant Therapy for Esophageal Cancer. *Dig Dis Sci.* 2017 Jun;62(6):1647-1656.
12. **Smith ZL**, Dua A, Saeian K, Ledebner NA, Graham MB, Aburajab M, Ballard DD, Khan AH, Dua KS. A Novel Protocol Obviates Endoscope Sampling for Carbapenem-Resistant Enterobacteriaceae: Experience of a Center with a Prior Outbreak. *Dig Dis Sci.* 2017 Nov;62(11):3100-3109.
13. ASGE Technology Committee, Thosani N, Goodman A, Manfredi M, Navaneethan U, Parsi MA, **Smith ZL**, Sullivan SA, Banerjee S, Maple JT. Endoscopic anti-reflux devices (with videos). *Gastrointest Endosc.* 2017 Dec;86(6):931-948.
14. Aburajab M, **Smith Z**, Khan A, Dua K. Safety and efficacy of lumen-apposing metal stents with and without simultaneous double-pigtail plastic stents for draining pancreatic pseudocyst. *Gastrointest Endosc.* 2018 May;87(5):1248-1255.
15. Fritz CDL, **Smith ZL**, Elsner J, Hollander T, Early D, Kushnir V. Prolonged Cecal Insertion Time Is Not Associated with Decreased Adenoma Detection When a Longer Withdrawal Time Is Achieved. *Dig*

- Dis Sci. 2018 Nov;63(11):3120-3125.
16. Bill JG, **Smith Z**, Brancheck J, Elsner J, Hobbs P, Lang GD, Early DS, Das K, Hollander T, Doyle MBM, Fields RC, Hawkins WG, Strasberg SM, Hammill C, Chapman WC, Edmundowicz S, Mullady DK, Kushnir VM. The importance of early recognition in management of ERCP-related perforations. *Surg Endosc.* 2018 Dec;32(12):4841-4849.
 17. ASGE Technology Committee, Navaneethan U, Thosani N, Goodman A, Manfredi M, Pannala R, Parsi MA, **Smith ZL**, Sullivan SA, Banerjee S, Maple JT. Radiofrequency ablation devices. *VideoGIE.* 2017 Oct;2(10):252-259. PMID: PMC5992954
 18. **Smith ZL**, Gregory MH, Elsner J, Alajlan BA, Kodali D, Hollander T, Sayuk GS, Lang GD, Das KK, Mullady DK, Early DS, Kushnir VM. Health-related quality of life and long-term outcomes after endoscopic therapy for walled-off pancreatic necrosis. *Dig Endosc.* 2019 Jan;31(1):77-85.
 19. **Smith ZL**, Mullady DK, Lang GD, Das KK, Hovis RM, Patel RS, Hollander TG, Elsner J, Ifune C, Kushnir VM. A randomized controlled trial evaluating general endotracheal anesthesia versus monitored anesthesia care and the incidence of sedation-related adverse events during ERCP in high-risk patients. *Gastrointest Endosc.* 2019 Apr;89(4):855-862.
 20. **Smith ZL**, Dua KS. Patient selection in studies evaluating esophageal stents during neoadjuvant therapy. *Gastrointest Endosc.* 2019 Jan;89(1):205-206.
 21. **Smith ZL**, Chiang AL, Bowman D, Wallace MB. Longitudinal relationship between social media activity and article citations in the journal *Gastrointestinal Endoscopy*. *Gastrointest Endosc.* 2019 Jul;90(1):77-83.
 22. **Smith ZL**, Das KK, Kushnir VM. Anesthesia-administered sedation for endoscopic retrograde cholangiopancreatography: monitored anesthesia care or general endotracheal anesthesia? *Curr Opin Anaesthesiol.* 2019 Aug;32(4):531-537.
 23. **Smith ZL**, Park KH, Llano EM, Donboli K, Fayad L, Han S, Kang L, Simril RT 2nd, Patel R, Hollander T, Rogers MC, Elmunzer BJ, Siddiqui UD, Aadam AA, Mullady DK, Lang GD, Das KK, Jamil LH, Lo SK, Gaddam S, Chapman CG, Keswani RN, Wani S, Cote GA, Kumbhari V, Kushnir VM. Outcomes of endoscopic treatment of leaks and fistulae after sleeve gastrectomy: results from a large multicenter U.S. cohort. *Surg Obes Relat Dis.* 2019 Jun;15(6):850-855.
 24. **Smith ZL**, Nickel KB, Olsen MA, Vargo JJ, Kushnir VM. Type of sedation and the need for unplanned interventions during ERCP: analysis of the clinical outcomes research initiative national endoscopic database (CORI-NED). *Frontline Gastroenterol.* 2020 Mar;11(2):104-110. PMID: PMC7043086
 25. Shah R, Satyavada S, Ismail M, Kurin M, **Smith ZL**, Cooper GS, Chak A. COVID-19 pandemic through the lens of a gastroenterology fellow: looking for the silver lining. *Gastrointest Endosc.* 2020 Aug;92(2):394-398. PMID: PMC7130320
 26. Bilal M, Simons M, Rahman AU, **Smith ZL**, Umar S, Cohen J, Sawhney MS, Berzin TM, Pleskow DK. What constitutes urgent endoscopy? A social media snapshot of gastroenterologists' views during the COVID-19 pandemic. *Endosc Int Open.* 2020 May;8(5):E693-E698. PMID: PMC7165009
 27. Kushnir VM, Berzin TM, Elmunzer BJ, Mendelsohn RB, Patel V, Pawa S, **Smith ZL**, Keswani RN, North American Alliance for the Study of Digestive Manifestations of COVID-19. Plans to Reactivate Gastroenterology Practices Following the COVID-19 Pandemic: A Survey of North American Centers. *Clin Gastroenterol Hepatol.* 2020 Sep;18(10):2287-2294.e1. PMID: PMC7242181
 28. Elmunzer BJ, **Smith ZL**, Tarnasky P, Wang AY, Yachimski P, Banovac F, Buscaglia JM, Buxbaum J, Chak A, Chong B, Coté GA, Draganov PV, Dua K, Durkalski V, Geller BS, Jamil LH, Keswani RN, Khashab MA, Law R, Lo SK, McCarthy S, Selby JB, Singh VK, Taylor JR, Willingham FF, Spitzer RL, Foster LD, INTERCPT study group and the United States Cooperative for Outcomes Research in Endoscopy (USCORE). An Unsuccessful Randomized Trial of Percutaneous vs Endoscopic Drainage of Suspected Malignant Hilar Obstruction. *Clin Gastroenterol Hepatol.* 2021 Jun;19(6):1282-1284. PMID: PMC8776356
 29. **Smith ZL**, Elmunzer BJ, Cooper GS, Chak A. Real-World Practice Patterns in the Era of Rectal Indomethacin for Prophylaxis Against Post-ERCP Pancreatitis in a High-Risk Cohort. *Am J Gastroenterol.* 2020 Jun;115(6):934-940.
 30. Forbes N*, **Smith ZL***, Spitzer RL, Keswani RN, Wani SB, Elmunzer BJ, North American Alliance for the Study of Digestive Manifestations of COVID-19. Changes in Gastroenterology and Endoscopy Practices in Response to the Coronavirus Disease 2019 Pandemic: Results From a North American Survey. *Gastroenterology.* 2020 May 04. PMID: PMC7196540 (*Denotes Equal Contribution)
 31. Elangovan A, Shah R, **Smith ZL**. Pharmacotherapy for Obesity-Trends Using a Population Level National Database. *Obes Surg.* 2021 Mar;31(3):1105-1112.

32. Elmunzer BJ, Spitzer RL, Foster LD, Merchant AA, Howard EF, Patel VA, West MK, Qayed E, Nustas R, Zakaria A, Piper MS, Taylor JR, Jaza L, Forbes N, Chau M, Lara LF, Papachristou GI, Volk ML, Hilson LG, Zhou S, Kushnir VM, Lenyo AM, McLeod CG, Amin S, Kuftinec GN, Yadav D, Fox C, Kolb JM, Pawa S, Pawa R, Canakis A, Huang C, Jamil LH, Aneese AM, Glamour BK, **Smith ZL**, Hanley KA, Wood J, Patel HK, Shah JN, Agarunov E, Sethi A, Fogel EL, McNulty G, Haseeb A, Trieu JA, Dixon RE, Yang JY, Mendelsohn RB, Calo D, Aroniadis OC, LaComb JF, Scheiman JM, Sauer BG, Dang DT, Piraka CR, Shah ED, Pohl H, Tierney WM, Mitchell S, Condon A, Lenhart A, Dua KS, Kanagala VS, Kamal A, Singh VK, Pinto-Sanchez MI, Hutchinson JM, Kwon RS, Korsnes SJ, Singh H, Solati Z, Willingham FF, Yachinski PS, Conwell DL, Mosier E, Azab M, Patel A, Buxbaum J, Wani S, Chak A, Hosmer AE, Keswani RN, DiMaio CJ, Bronze MS, Muthusamy R, Canto MI, Gjeorgjievski VM, Imam Z, Odish F, Edhi AI, Orosey M, Tiwari A, Patwardhan S, Brown NG, Patel AA, Ordiah CO, Sloan IP, Cruz L, Koza CL, Okafor U, Hollander T, Furey N, Reykhart O, Zbib NH, Damianos JA, Esteban J, Hajidiacos N, Saul M, Mays M, Anderson G, Wood K, Mathews L, Diakova G, Caisse M, Wakefield L, Nitchie H, Waljee AK, Tang W, Zhang Y, Zhu J, Deshpande AR, Rockey DC, Alford TB, Durkalski V, North American Alliance for the Study of Digestive Manifestations of COVID-19. Digestive Manifestations in Patients Hospitalized With Coronavirus Disease 2019. *Clin Gastroenterol Hepatol*. 2021 Jul;19(7):1355-1365.e4. PMID: PMC7527302
33. **Smith ZL**, Shah R, Elmunzer BJ, Chak A. The Next EPISOD: Trends in Utilization of Endoscopic Sphincterotomy for Sphincter of Oddi Dysfunction from 2010-2019. *Clin Gastroenterol Hepatol*. 2022 Mar;20(3):e600-e609.
34. Adoor D, **Smith ZL**. Percutaneous- and EUS-guided gastroenterostomy for malignant afferent limb syndrome. *VideoGIE*. 2020 Nov;5(11):542-544. PMID: PMC7649849
35. Forbes N, Chau M, Koury HF, Lethebe BC, **Smith ZL**, Wani S, Keswani RN, Elmunzer BJ, Anderson JT, Heitman SJ, Hilsden RJ. Development and validation of a patient-reported scale for tolerability of endoscopic procedures using conscious sedation. *Gastrointest Endosc*. 2021 Jul;94(1):103-110.e2. PMID: PMC8761529
36. Ahmad DS, Mansoor E, Alikhan MM, Rana MN, Panhwar MS, Wong RCK, **Smith ZL**. Risk of Venous Thromboembolism in Acute Necrotizing Pancreatitis: A Large Database Study. *Pancreas*. 2021 Jan 01;50(1):71-76.
37. Elmunzer BJ, Wolf BJ, Scheiman JM, Tierney WM, Taylor JR, North American Alliance for the Study of Digestive Manifestations of COVID-19. Association Between Preadmission Acid Suppressive Medication Exposure and Severity of Illness in Patients Hospitalized With COVID-19. *Gastroenterology*. 2021 Mar;160(4):1417-1422.e14. PMID: PMC7659802
38. Mehta D, Loutfy AH, Kushnir VM, Faulx AL, **Smith ZL**. Cold versus hot endoscopic mucosal resection for large sessile colon polyps: a cost-effectiveness analysis. *Endoscopy*. 2022 Apr;54(4):367-375.
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Editorials, Letters to Editor, Other

1. **Smith ZL**. Commentary in: AspireAssist® device linked to improved weight loss in patients with obesity. *Healio Gastroenterology* December 21, 2016. <http://www.healio.com/gastroenterology/interventional-endoscopy/news/online/%7B1da05f01-332f-49cb-b42f-cc87e9380942%7D/aspireassist-device-linked-to-improved-weight-loss-in-patients-with-obesity>
2. **Smith ZL**. Commentary in: Cellvizio detects Barrett's esophagus better than current methods. *Healio Gastroenterology* April 18, 2018. <https://www.healio.com/gastroenterology/esophagus/news/online/%7Be831e6b9-e1d5-4bbd-8549-ebbcb5cf7bfe%7D/cellvizio-detects-barretts-esophagus-better-than-current-methods>
3. **Smith ZL**. Commentary in: Endocuff reduces colonoscopy withdrawal time without sacrificing detection. *Healio Gastroenterology* January 17, 2019. <https://www.healio.com/news/gastroenterology/20190117/endocuff-reduces-colonoscopy-withdrawal-time-without-sacrificing-detection>
4. **Smith ZL**, Dua KS. Patient selection in studies evaluating esophageal stents during neoadjuvant therapy. *Gastrointest Endosc.* 2019; 89(1): 205-206.
5. Quader F, **Smith ZL**. Guest Commentary: Gastrointestinal endoscopy during a global pandemic. *Healio Gastroenterology* March 23, 2020. <https://www.healio.com/gastroenterology/interventional-endoscopy/news/online/%7Bf6c97438-13ee-47c2-a9ed-894383b415a3%7D/guest-commentary-gastrointestinal-endoscopy-during-a-global-pandemic>
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Abstracts

1. **Smith ZL**, Elsner JA, Gregory MH, Kodali D et al. Long-term outcomes of patients undergoing endoscopic therapy for walled-off pancreatic necrosis. Lecture presentation at ASGE Topic Forum. *Digestive Disease Week* May 2017. Chicago, IL
2. **Smith ZL**, Markollari V, Nickel KB, Olsen MA et al. Mode of sedation and serious adverse events during ERCP: Analysis the clinical outcomes research initiative national endoscopic database (CORI-NED). Lecture presented at ASGE Topic Forum. *Digestive Disease Week* June 2018. Washington D.C.
3. **Smith ZL**, Elsner JA, Patel RS, Kodali D et al. A randomized-controlled trial evaluating the use of general endotracheal anesthesia compared with monitored anesthesia care without an endotracheal tube and the

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4. **Smith ZL**, Elmunzer BJ, Cooper G, Chak A. Real world practice patterns in the era of rectal indomethacin for prophylaxis against post-ERCP pancreatitis: A large population-based study. Lecture presentation at Digestive Disease Week May 2019. San Diego, CA.
 5. Sifuentes H, Parakkal D, **Smith ZL**, Du H, Yen E, Ehrenpreis E. Infliximab is often discontinued in the community setting. Abstract presented at Digestive Disease Week May 2011. Chicago, IL
 6. Sifuentes H, **Smith ZL**, Parakkal D, Ecanow D, Ehrenpreis E. The significance of mesenteric abnormalities seen on computed tomography (CT) of the abdomen. Abstract presented at Digestive Disease Week May 2011. Chicago, IL
 7. Sifuentes H, **Smith ZL**, Parakkal D, Ecanow D, Ehrenpreis E. The Significance of Mesenteric Abnormalities on Computed Tomography (CT): Clinical Findings and Outcomes of 359 Patients. Abstract presented at the ACG Annual Scientific Meeting. October 2011. Washington DC
 8. **Smith ZL**, Williams J. Acalculous cholecystitis associated with acute Epstein-Barr virus infection in an otherwise healthy 21-year-old female. Case vignette presentation at the ACG Annual Scientific Meeting. October 2011. Washington DC
 9. **Smith ZL**, Sifuentes H, Ehrenpreis E. Indications for Inpatient Use of Proton Pump Inhibitors: A Prospective Analysis. Abstract presented at the ACG Annual Scientific Meeting. October 2011. Washington DC
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 11. Shibib D, Regner M, Mangold KA, **Smith ZL**, Goldstein JL, Thomson RB, Kaul K. Detection of Clarithromycin Resistant *Helicobacter pylori* from CLO® Test Fresh Gastric Biopsies by Real-Time PCR with Melt Curve Analysis. Abstract presented at National Meeting of the American Society of Microbiology May 2013. Denver, CO
 12. Goldstein JL, **Smith ZL**, Zhang Y, Fort JG. Prevalence of Gastric Ulcers in Aspirin Users and Does the Presence of Erosions Foreshadow Ulcer Development. Abstract presented at Digestive Disease Week May 2013. Orlando, FL
 13. **Smith ZL**, Patel S, Mitzel DJ, Ballard DD, Kumar N, Dua KS. Community practice patterns in patients presenting with biliary obstruction from pancreatic adenocarcinoma. Abstract presented at Digestive Disease Week May 2015. Washington, DC
 14. Ballard DD, **Smith ZL**, Dua KS. Large gastric conduit dehiscence with empyema treated with endoscopic intervention. Presented at the Video Forum of the ACG Annual Scientific Meeting. October 2015. Honolulu, HI
 15. **Smith ZL**, Dua KS, Ballard DD, Khan AH, Bolckhir A, Aburajab M. Is Fixed, Non-Collapsible, Large-Diameter Cystenterostomy Better? A Single-Center Experience of Pseudocyst Drainage Using Lumen-Apposing Metal Stents. Presented at Digestive Disease Week May 2016. San Diego, CA
 16. Bill JG, Hobbs P, Elsner JA, **Smith ZL** et al. Endoscopic Repair of Iatrogenic Gastrointestinal (GI) Perforations: Experience from an Academic Medical Center. Abstract presented at Digestive Disease Week May 2017. Chicago, IL
 17. Bill JG, Elsner JA, Hobbs P, **Smith ZL** et al. Management of ERCP Related Perforations: Experience from an Academic Medical Center. Abstract presented at Digestive Disease Week May 2017. Chicago, IL
 18. Bill JG, Elsner JA, Hobbs P, **Smith ZL** et al. Identifying Risk Factors for Iatrogenic Perforation of the Gastrointestinal Tract During Diagnostic and Therapeutic Endoscopy. Abstract presented at Digestive Disease Week May 2017. Chicago, IL
 19. Fritz CD, **Smith ZL**, Elsner JA, Hollander T et al. Cecal insertion time: What affects it and how does it impact adenoma detection? Abstract presented at Digestive Disease Week May 2017. Chicago, IL.
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 21. **Smith ZL**, Elsner JA, Patel RS, Hollander T et al. Safety and efficacy of the endoscopic management of staple line leaks following sleeve gastrectomy: Experience of a multicenter cohort. Abstract presented at Digestive Disease Week June 2018. Washington D.C.
 22. Ture A, Melitas C, Northcutt M, **Smith ZL** et al. Molecular detection of clarithromycin resistance: Is it predictive of treatment success? Abstract presentation at the ACG National Scientific Meeting October 2018. Philadelphia, PA

23. Hornick A, **Smith ZL**. A Simple and Novel Single-Step Method for Simultaneous Removal and Closure of a Distally Migrated Biliary Stent Causing Lateral Wall Duodenal Perforation. Abstract presentation at the ACG National Scientific Meeting October 2018. Philadelphia, PA
24. Li Z, **Smith ZL**, Dahoud W, Stein S, Cooper G. Duodeno-Colonic Fistula Associated With an Intestinal Large B-Cell Lymphoma. Abstract presentation at the ACG National Scientific Meeting October 2018. Philadelphia, PA
25. Matta CB, Sadik J, Chak A, Cooper GS, **Smith ZL**, Faulx AL, Dumot JA, Winter JM, Wong RCK, Isenberg GA, Glessing BR. Is there an association between previously-identified pancreatic cystic lesions and the subsequent development of pancreatic cancer? Abstract presentation at Digestive Disease Week May 2019. San Diego, CA
26. Ahmad D, Esmadi M, Abdelfatah MM, Glessing BR, **Smith ZL**, Chak A. Is it time for EUS-guided gallbladder drainage to go mainstream? An updated meta-analysis. Abstract presentation at Digestive Disease Week May 2019. San Diego, CA
27. Ahmad D, Esmadi M, Abdelfatah MM, Glessing BR, **Smith ZL**, Chak A. EUS-guided gallbladder drainage versus endoscopic transpapillary gallbladder drainage for acute cholecystitis: A meta-analysis. Abstract presentation at Digestive Disease Week May 2019. San Diego, CA
28. Tripathi A, Sadik J, Chak A, Glessing BR, Faulx AL, Dumot JA, Isenberg GA, Wong RCK, **Smith ZL**. Unplanned healthcare utilization following EUS-FNA. Abstract presentation at Digestive Disease Week May 2019. San Diego, CA
29. *Ahmad D, Wong RCK, **Smith ZL**. Risk of Venous Thromboembolism in Acute Necrotizing Pancreatitis: A Population-Based National Study. Abstract to be presented at the American College of Gastroenterology National Meeting. October 2019, San Antonio, TX. *Recipient of the ACG Presidential Poster Award
30. Al Nabulsi R, Ahmad D, Wong RCK, **Smith ZL**. Iatrogenic Lingual Hematoma Resulted in Impending Airway Compromise. Abstract to be presented at the American College of Gastroenterology National Meeting. October 2019, San Antonio, TX
31. Aaron J, Ahmad D, **Smith ZL**. Endoscopic Challenges in a Patient with Ansa Pancreatica and Recurrent Pancreatitis. Abstract to be presented at the American College of Gastroenterology National Meeting. October 2019, San Antonio, TX
32. Shah R, **Smith ZL**. Trends in ERCP Utilization for Sphincter of Oddi dysfunction: The real-world impact of EPISOD and Rome IV. Abstract to be presented at the American College of Gastroenterology National Meeting. October 2019, San Antonio, TX
33. Bou-Abboud CM, Karb D, Ahmad D, Chak A, Glessing BR, Faulx AL, Dumot JA, Isenberg GA, Wong RCK, **Smith ZL**. Comparing radiation time in radiology technologist-controlled versus endoscopist-controlled fluoroscopy during endoscopic retrograde cholangiopancreatography. Abstract to be presented at the American College of Gastroenterology National Meeting. October 2019, San Antonio, TX
34. Shah R, Elangovan A, **Smith ZL**. Trends of sleeve gastrectomy and post-operative weight loss pharmacotherapy over 10 years: A large database study. Abstract accepted for oral presentation at Digestive Disease Week May 2020. Chicago, IL. MEETING CANCELED DUE TO COVID-19 PANDEMIC.
35. Shah R, Chak A, Dumot JA, **Smith ZL**. Incidence and risk factors for Barrett's esophagus after sleeve gastrectomy: A large population database study. Abstract accepted as poster at Digestive Disease Week May 2020. Chicago, IL. MEETING CANCELED DUE TO COVID-19 PANDEMIC.
36. Mehta D, Kushnir VM, Faulx AL, **Smith ZL**. Cold EMR is more cost-effective than hot EMR for large colon polyp resection. Abstract accepted as poster at Digestive Disease Week May 2020. Chicago, IL. MEETING CANCELED DUE TO COVID-19 PANDEMIC.
37. Shah R, Elangovan A, **Smith ZL**. Pharmacotherapy for obesity - Trends using a population level national database. Abstract accepted as poster at Digestive Disease Week May 2020. Chicago, IL. MEETING CANCELED DUE TO COVID-19 PANDEMIC.
38. Tripathi A, **Smith ZL**, Lindsay AS, Dumot JA, Glessing BR, Faulx AL, Chak A. Miniprobe endoscopic ultrasound rarely changes clinical management in colonic subepithelial lesions. Abstract accepted as poster at Digestive Disease Week May 2020. Chicago, IL. MEETING CANCELED DUE TO COVID-19 PANDEMIC.
39. Cummings LC, Liang C, Mascha E, Saager L, **Smith ZL**, Bhavani S, Vargo JJ, Cummings KC. Adverse events with general anesthesia versus sedation without planned intubation for endoscopic retrograde cholangiopancreatography: a multicenter observational study. Lecture presentation at Digestive

- Disease Week 2021, Virtual Meeting.
40. Satyavada S, Mok SRS, Martínez-Moreno B, Aparicio JR, Simons-Linares R, Chahal P, **Smith ZL**. Diagnostic accuracy of intracystic concentrations of glucose and CEA in identifying mucin producing cystic neoplasms of the pancreas: a multicenter retrospective cohort study of histologically-proven cysts. Presidential Plenary lecture presentation at Digestive Disease Week 2021, Virtual Meeting.
 41. **Smith ZL**, Chak A, Dua KS, Duloy A, Forbes N, Kushnir VM, Patel V5, Wani SB, Elmunzer BJ. Psychosocial outcomes in patients undergoing endoscopic drainage of walled-off necrosis: a propensity-matched analysis. Lecture presentation at Digestive Disease Week 2021, Virtual Meeting.
 42. Khoja K, Chisholm P, Dua KS, Khan AH, Madhavan S, **Smith ZL**. Psychosocial consequences of acute necrotizing pancreatitis: a propensity-matched analysis. Poster presentation at Digestive Disease Week 2021, Virtual Meeting.
 43. Elangovan A, Shah R, **Smith ZL**. Diabetes mellitus and cholelithiasis: a population-level database study. Poster presentation at Digestive Disease Week 2021, Virtual Meeting.
 44. Adoor D, Hayat U, Sheriff MZ, **Smith ZL**, Chak A. Risk of pancreatic cancer (pca) after diagnosis of pancreatic cyst (pcy): a large, national, population based study. Poster presentation at Digestive Disease Week 2021, Virtual Meeting.
 45. Quader F, Faulx AL, Forbes N, Pohl H, **Smith ZL**. Endoscopic Mucosal Resection versus Partial Colectomy for Benign Colorectal Polyps in a Propensity-Matched Cohort. Abstract accepted as poster presentation at the American College of Gastroenterology National Meeting. October 2021. Las Vegas, NV.
 46. Khoja K, O'Connor S, Tsai S, **Smith ZL**. Disparities in referral and surveillance patterns for incidental pancreatic cysts. Abstract accepted as poster presentation at the American College of Gastroenterology National Meeting. October 2021. Las Vegas, NV.
 47. **Smith ZL**, Thorgerson AA, Dawson AZ, Vajravelu RK, Wani SB. Incidence of esophageal adenocarcinoma, mortality, and esophagectomy in Barrett's esophagus patients undergoing endoscopic eradication therapy: A large, real-world observational study. Distinguished Abstract Plenary Session. Digestive Disease Week 2022. San Diego, CA.
 48. Sadiq O, **Smith ZL**, Madhavan S, Chisholm P, Zuchelli T, Dua KS. Antibiotic resistance is associated with mortality in critically ill patients with cholangitis. Abstract presented at Digestive Disease Week, May 2022. San Diego, CA. Awarded AGA Poster of Distinction.
 49. **Smith ZL**, Kayal A, Lethebe BC, et al. Equivalent effectiveness, adverse event rates, and patient tolerability of ERCP with conscious sedation versus anesthesia. Abstract poster presentation at Digestive Disease Week, May 2022. San Diego, CA.
 50. **Smith ZL**, Sadiq O, Chisholm P, Madhavan S, Dua KS. Outcomes and management of acute necrotizing pancreatitis during the COVID-19 pandemic. Abstract poster presentation at Digestive Disease Week. May 2022. San Diego, CA.
 51. Forbes N, Elmunzer BJ, Keswani RN...**Smith ZL** et al. Consensus-based development of a causal attribution system for post-ERCP adverse events. Abstract lecture presentation. Digestive Disease Week. May 2022. San Diego, CA.