

DAVID LAWRENCE DIEHL, MD

PERSONAL HISTORY

Business address: Geisinger Health System
Department of Gastroenterology and Nutrition
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EDUCATION

Undergraduate: University of California, Los Angeles
A.B. Biology, June 1978

Medical: UCLA School of Medicine
M.D. June 1983

Internship: Harbor/UCLA Medical Center
Internal Medicine, July 1983 - June 1984

Residency: Harbor/UCLA Medical Center
Internal Medicine, July 1984 - June 1986

Chief Resident: Harbor/UCLA Medical Center
Internal Medicine, July 1986 - June 1987

Fellowship: University of California, San Francisco
Affiliated Hospitals
Gastroenterology, July 1987 - June 1988

UCLA School of Medicine Hospital and Clinics
Gastroenterology, July 1988 - June 1990

LICENSURE

Physician, State of Pennsylvania MD430592 (Issued 1/07)

BOARD CERTIFICATION

Internal Medicine, 1986
Gastroenterology, 1989

PROFESSIONAL EXPERIENCE

PRESENT POSITIONS

Associate in Gastroenterology
Director of Interventional Endoscopy, Geisinger Health System, Danville, PA
2/07 – present

Director of Advanced Endoscopy Fellowship 2008 – present

Adjunct Associate Professor of Medicine, New York University School of Medicine
4/07 - present

Clinical Professor of Medicine, Temple University School of Medicine
2012 – 2017

Clinical Professor of Medicine, Geisinger Commonwealth School of Medicine
2018 – present

PREVIOUS POSITIONS

Clinical Associate Professor of Medicine, NYU School of Medicine
Director of Gastrointestinal Endoscopy, Bellevue Hospital Center 4/01 to 1/07

Private Practice of Gastroenterology, Irvine, California 8/1999 – 3/2001

Clinical Associate Professor of Medicine,
California College of Medicine, University of California, Irvine 12/1999 – 3/2001

Associate Clinical Professor of Medicine, UCLA School of Medicine 1998 – 1999

Assistant Clinical Professor of Medicine, UCLA School of Medicine 1990 – 1998

Chief of Gastrointestinal Endoscopy, Olive View-UCLA Medical Center
(UCLA / San Fernando Valley Affiliated Training Program in GI) 1992 – 1999

Fellow in Medical Education, Center for Educational Development and Research,
UCLA School of Medicine, Office of the Dean 1996 - 1997

Associate Director, UCLA Center for Functional Bowel Disorders and Abdominal Pain, UCLA Division of Digestive Diseases	1993 - 1995
Director of Gastrointestinal Endoscopy, Sepulveda VA Medical Center, 1992-1997	
Staff Physician, Division of Gastroenterology, West Los Angeles VA Medical Center	1990 - 1995
Research Associate, Center for Ulcer Research and Education (CURE), 1988-91	
Chief Resident in Internal Medicine, Harbor/UCLA Medical Center,	1986 - 1987
Student Pathology Fellowship, UCLA School of Medicine	1981 – 1982

PROFESSIONAL ASSOCIATIONS

American College of Physicians (Fellow)

American Society for Gastrointestinal Endoscopy (Fellow)

American Gastroenterology Association

American College of Gastroenterology

Pennsylvania Society of Gastroenterology (Secretary)

American Academy of Medical Acupuncture

Medical Acupuncture Research Foundation (former Vice-President)

SCHOLARLY AND PROFESSIONAL ACTIVITIES

Member, Reimbursement Committee, American Society of Gastrointestinal Endoscopy	2018 - present
Member, Observational Study Monitoring Board, Registry for Trans-Oral Endoscopic Suturing Applications, AGA	2018
Pennsylvania Society of Gastroenterology, Secretary	2017- present
Pennsylvania Society of Gastroenterology, Treasurer	2015- 2017
Pennsylvania Society of Gastroenterology, Councilor	2013 - 2015

Bucknell-Geisinger Research Initiative (BGRI) Collaborator: *Characterization of Endoscopic Parameters Toward the Creation of an Automated Endoscope*, K. Bieryla, Biomedical Engineering and E. Geist, Mechanical Engineering, Bucknell; D. Diehl, Gastroenterology, Geisinger. \$10,000

Mentor, Bucknell Department of Biomedical Engineering Senior Design, 2012-2013
Mentors provide clinical overviews and experiences for a team of senior biomedical engineering students. The student teams are tasked to identify, develop, and evaluate prototype devices that could be used to enhance medical care by meeting unmet patient treatment needs or improving the status quo of treatment or surgery.

Team member, Cernostics laboratory diagnostic test development team

Editorial Board Member, EndoWeb

Course Director, Gastroenterology for the Primary Care Practitioner
CME activity through Geisinger Medical Center CME office, 2012

Course Director, Pennsylvania Society of Gastroenterology Annual Meeting,
September 23-25, 2011, Bedford Springs, PA

Recipient of Geisinger Medical Center translational research grant (\$54,000) for
Proteomic Analysis of Pancreatic Cyst Fluid (IRB# 2008-0117); in collaboration
for Dr. Glenn Gerhard. Initial sample analysis underway.

Member, Committee for Technology Assessment, American Society of
Gastrointestinal Endoscopy. 2007 – 2010

Collaborating Researcher, NYU Center for Immigrant Health, NCI/NIH funded *Cancer
Awareness Network for Immigrant and Minority Populations (CANIMP)*.
2004 - 2006

Faculty Advisor and Content Creator, **Surgical Interactive Multimedia Modules,
(SIMM)**, NYU Department of Surgery 2003 - 2004

Member, New York City Citywide Colon Cancer Control Coalition (C5) 2004-5

Prostate/Colorectal Cancer Initiative, Bellevue Hospital Center 2003
Sponsored by the American Cancer Society

Advisory Panel member, Complementary and Alternative Medicine Data Archive
(CAMDA) 2003 - 2006

Mentor and Advisor, UCLA School of Medicine 1991 - 1999

Member, NIH/NCCAM Special Study Section for Complementary and Alternative Medicine (CAM) Center Grants	1999
Member, Scientific Review Team, NIH Consortial Center for Chiropractic Research	1999
Vice-President, Medical Acupuncture Research Foundation (MARF) 1993-2001	
Member, NIH Study Section for Acupuncture	1998
Invited participant and speaker, NIH Consensus Development Conference on Acupuncture	1997
Invited participant, "Education in Complementary and Alternative Medicine (CAM)", Bethesda MD (sponsored by NIH and the Uniformed Services University of Health Sciences)	1996

EDITORIAL SERVICES TO SCHOLARLY PUBLICATIONS

Journal of the American Medical Association, Gastrointestinal Endoscopy, Journal of Clinical Gastroenterology, Clinical Gastroenterology and Hepatology, American Journal of Gastroenterology, Gastroenterology, Surgical Endoscopy, Southern Medical Journal, Hospital Physician reviewer

Medical Acupuncture, Editorial Board

Journal of Alternative and Complementary Medicine, (Maryann Liebert, pub.) Editorial Board

Clinical Acupuncture and Oriental Medicine (Churchill Livingstone, pub.), International Editorial Advisory Board

HONORS

Phi Beta Kappa, UCLA, June 1978

Order of the Golden Bruin, June 1982

Faculty of the Year Award, NYU School of Medicine, June, 2006

Invited Lectures

Newer developments in cholangioscopy. London Live Endoscopy Course, King's College of Medicine, London England, November 8. 2019

Liver biopsy: past present and future. Dept of Gastroenterology Grand Rounds, Yale University School of Medicine, New Haven CT November 8, 2018

Liver biopsy: past present and future. Dept of Gastroenterology Grand Rounds, Baylor University School of Medicine, Houston, TX November 8, 2018

Artificial Intelligence for pancreaticobiliary problems. March, 2018
Olympus America, Center Valley, PA

Lectures, Presentations

Say No to the Knife: New Approaches to Colonoscopic Polypectomy.

Pennsylvania Society of Gastroenterology Annual Meeting, Pocono Manor, PA October, 2019

Dysphagia from A (achalasia) to Z (Zenkers): new solutions for old problems

Pennsylvania Society of Gastroenterology Annual Meeting, Pocono Manor, PA 9/25/16

Endoscopic management of pancreas cancer: new and future treatments

Lehigh Valley Hospital Symposium "Updates in Pancreatic Cancer" September 8, 2016

Fundamentals of advanced endoscopy course: luminal stenting

For advanced endoscopy fellows, Philadelphia, PA August 19, 2016

Learning EUS

Olympus Corporation, Bethlehem, PA June 2016

Minimal papillotomy and balloon sphincteroplasty in patients who cannot stop Plavix

Oral presentation Digestive Disease Week, May 2016, San Diego, CA

Case review of the use of cryoballoon for Barrett's esophagus

C2 Cryoballoon Users Meeting

San Diego CA, May 23, 2016

Quality in upper endoscopy

Pennsylvania Society of Gastroenterology, Lancaster PA September 20th, 2015

Dysphagia from A (achalasia) to Z (Zenkers): new solutions for old problems

Department of Medicine Grand Rounds, Geisinger Medical Center, August 14, 2015

EUS today: a master's course

Bethlehem, PA February 25th, 2015, October 6th, 2015, June, 2016
San Diego, CA March, 2016, December 2016

Use of the over the scope clip for management of perforations, fistulas, and bleeds

Pennsylvania Society of Gastroenterology
Farmington, PA September 20th, 2014

Radial Endosonography

Olympus North America, Interventional Endoscopy Fellow's Course
Lehigh Valley, PA, July, 2013, Chicago, IL, July 25-26, 2014, July 2015

Overview of endoscopic ultrasound (4 hour presentation)

Olympus North America National Sales Meeting
May 1st, 2014 Orlando FL

Barrett's esophagus

Gastroenterology for the Primary Care Practitioner, GMC, March 12, 2014

Pancreatic Cancer: a Gastroenterologist's Perspective

Department of Medicine Grand Rounds, Geisinger Medical Center, August 16, 2013

Pancreatic Cancer: a Gastroenterologist's Perspective

Department of Medicine Grand Rounds, Norwalk (CT) Hospital, February 28, 2013

Endoscopic Ultrasound in Modern Clinical Practice

Department of Medicine Grand Rounds, Geisinger Medical Center, June 1, 2012

Overview of Endoscopic Ultrasound

Department of Medicine Grand Rounds, Guthrie Medical Center, March 30, 2012

Pancreatic Cysts: Wait or Operate

Gastroenterology for the Primary Care Practitioner, March 14, 2012

Gastrointestinal Palliation

13th annual Topics in Palliative Medicine Conference, November 3, 2011

Chronic Pancreatitis

Department of Medicine, Internal Medicine Residents Conference
Geisinger Medical Center, September 27, 2011

Chronic Pancreatitis

Department of Gastroenterology Core Curriculum Conference
Geisinger Medical Center, August 5, 2011

Endoscopic management of Esophageal Malignancy

Presentation to local gastroenterologists
Columbia, South Carolina, July 21, 2011

**Masters of Medicine Series (Department of Medicine Grand Rounds Case discussion):
Duodenal varices**

Geisinger Medical Center. January 21, 2011

Barrett's Esophagus

Department of Gastroenterology Core Curriculum Conference
Geisinger Medical Center, January 19, 2011

Stenting of Biliary Malignancies

Presentation to local gastroenterologists, Altoona, PA. February 10, 2011

**Masters of Medicine Series (Department of Medicine Grand Rounds Case discussion):
A case of pancreaticopleural fistula**

Geisinger Medical Center. March 5, 2010

Maximizing Success and Minimizing Risk in ERCP.

Presentation to local gastroenterologists, Reading, PA. February 4, 2010

Maximizing Success and Minimizing Risk in ERCP.

Presentation to Ocean Monmouth (New Jersey) Chapter of the Society of Gastroenterology Nurses and Associates (SGNA), Atlantic City, NJ. October 17, 2009

Enteral Stenting: When and How.

Department of Gastroenterology Grand Rounds, Metropolitan Medical Center. Cleveland, OH. September, 2009

Sphincterotomes: Past, Present, and Future

Presentation to Design, Process, and Quality Engineers, Boston Scientific, Spencer, IN, August, 2009

Pancreatic Cyst Proteomics

Presentation to Geisinger Health System Scientific Advisory Board. December 2008

Maximizing Success and Minimizing Risk in ERCP.

Presentation to local gastroenterologists, Altoona, PA. December, 2008

Enteral Stenting: When and How.

Presentation to local gastroenterologists and surgeons. Lewisburg, PA. December, 2008

New Advances in Cholangioscopy

Presentation to local gastroenterologists, York, PA. June, 2008

EUS with or without FNA is a Highly Effective Modality in Evaluation of Positive PET Scan Findings. Poster presentation at the 14th International Endoscopic Ultrasound Conference, San Francisco, September, 2008

Screening for esophageal malignancy in patients with squamous cell carcinoma of the head and neck. Presentation to Department of Otolaryngology, 2008

Pancreatic Cancer and Diabetes. Presentation to Department of Endocrinology, 2008

Enteral Stenting

Pennsylvania Society of GI Nurses and Assistants (PA-SGNA) August-2007

Chronic Pancreatitis

Geisinger Internal Medicine Resident Curriculum Conference

Acute pancreatitis

Geisinger Internal Medicine Resident Curriculum Conference

Evidence based approach to acute pancreatitis

Lehigh Valley Medical Center, Department of Internal Medicine Grand Rounds 11/2007

Approach to Pancreatic Cysts GI Fellows Curriculum Conference 9/2007

Live Endoscopy Demonstrations and Preceptorships

I have led several professional preceptorships at Geisinger Medical Center in many different therapeutic endoscopic procedures. These include:

- Guidewire Management in ERCP
- Biliary Endoscopy Techniques
- SpyGlass cholangioscopy
- Endoscopic Mucosal Resection
- EUS and EUS-FNA techniques
- EUS-guided liver biopsy
- Spirus enteroscopy
- NaviAid deep enteroscopy
- Barrett's Management
- Cryoballoon ablation

PUBLICATIONS

PAPERS (PEER REVIEWED)

Ching-Companioni RA, Diehl DL, Johal AS, Confer BD, Khara HS. 19 G aspiration needle versus 19 G core biopsy needle for endoscopic ultrasound-guided liver biopsy: a prospective randomized trial. *Endoscopy*. 2019 Nov;51(11):1059-65.

Diehl DL. Therapeutic endoscopic ultrasound for postoperative fluid collections: a surgeon's best friend. *Endoscopy*. 2019; 51:711-712

Sharaiha RZ, Novikov A, Diehl DL, et al. Fully covered self-expanding metal stents for refractory pancreatic duct strictures in symptomatic chronic pancreatitis, US experience. *Endoscopy International Open*. 2019;07:E1419-E1423

Critchley-Thorne R, Hao J, Diehl DL, Snyder S. A Cost-Effectiveness Analysis of an Adenocarcinoma Risk Prediction Multi-Biomarker Assay for Patients with Barrett's Esophagus. *ClinicoEconomics and Outcomes Research*. 2019;11:623-635

Yang, D Diehl DL, et al. Safety and Efficacy of Endoscopic Submucosal Dissection for Rectal Neoplasia: A Multicenter North American Experience. *Endoscopy International Open*. 2019 (in press)

Shafqet M, Caruso C, Diehl DL. Treatment of neoplastic colonic lesions using the full-thickness resection device. *Video GIE*. 2019;4:535-538

Diehl DL, Mehta M, et al Splenic biopsy as an unintended consequence of EUS-guided liver biopsy: a cautionary tale. *Gastrointest Endosc*. 2019: August.
Doi.org/10.1016/j.gie.2019.08.010

Confer BD, Walker JT, Diehl DL, et al. EUS-guided liver biopsy: the type of needle matters. *Gastrointest Endosc*. 2019;90:321-322

Maeng D, Diehl DL, et al Upstream and downstream revenue of upper gastrointestinal endoscopic ultrasound determined with an episode of care approach. *Endoscopy International Open*. 2019;7:E1316-1321

Yang D, Trindade AJ, Yachimski P, Benias P, Nieto J, Manvar A, Ho S, Esnakula A, Gamboa A, Sethi A, Gupte A, Diehl DL, et al. Histologic Analysis of Endoscopic Ultrasound-Guided Through the Needle Microforceps Biopsies Accurately Identifies Mucinous Pancreas Cysts. *Clinical Gastroenterology and Hepatology*. 2019;17:1587-1596

M S Smith, B Cash, V Konda, D Diehl, et al. Volumetric laser endomicroscopy and its application to Barrett's esophagus: results from a 1,000 patient registry, *Diseases of the Esophagus*, doz029, <https://doi.org/10.1093/dote/doz029>

Khara HS, Shovlin GJ, Johal AS, Diehl DL. Endoscopic banding without resection (BWR) technique for treatment of diminutive neuroendocrine tumors in the duodenum. *Endoscopy International Open*. 2019 Feb;7(02):E302-7.

Fairley K, Diehl DL, Johal AS, Khara HS. Invisible pancreatic masses identified with EUS by the "ductal cut-off sign". *Endoscopic Ultrasound*, 2019 (*in press*)

Novikov A, Diehl DL, et al. Fully covered self-expanding metal stents for refractory pancreatic duct strictures in symptomatic chronic pancreatitis, US experience. 2019 (*In press*), *Endoscopy International Open*. 2019.

Dua KS, DeWitt JM, Kessler WRT, Diehl DL, et al. A phase 3, multicenter, prospective, single-blinded, noninferiority, randomized controlled trial on the performance of a novel esophageal stent with an anti-reflux valve (with video). *Gastrointestinal Endoscopy*. 2019;90:64-74

Mok SR, Diehl DL. The role of EUS in liver biopsy. *Current Gastroenterology Reports*. 2019 <http://dx.doi.org/10.1007/s11894-019-0675-8>

Overall outcomes of laparoscopic-assisted ERCP after Roux-en-Y gastric bypass and sphincter of Oddi dysfunction subgroup analysis. *Endoscopy International Open* 2019 (*Accepted for publication*)

Diehl DL. Endoscopic Ultrasound-guided liver biopsy. *Gastroenterology and Hepatology*. 2018;14:725-7

Mok SR, Diehl DL, Johal AS, Khara HS, Confer BD, Mudireddy PR, Kirschner HL, Chen, ZM. A prospective pilot comparison of wet and dry heparinized suction for EUS-guided liver biopsy (with videos). *Gastrointest Endosc*. 2018;88:919-925

Diehl DL, Mok SR, Khara HS, Johal AS, Kirchner HL, Lin F. Heparin priming of EUS-FNA needles does not adversely affect tissue cytology or immunohistochemical staining. *Endoscopy International Open*. 2018 Mar;6(3):E356.

Stewart DM, Khara HS, Diehl DL, Johal AS. The role of EUS in missed and known linitis plastica. *Endosc Ultrasound* 2018 *in press*

Khara HS, Kothari TH, Diehl DL, et al. Heads or tails: confusion about "proximal" and "distal" terminology for pancreaticobiliary anatomy. *Endoscopy International Open*. 2018;06:E801-E805

Patel AA, Trindade AJ, Diehl DL, Khara HS, Lee TP, Lee C, Sethi A. Nitrous oxide cryotherapy ablation for refractory gastric antral vascular ectasia. *United European Gastroenterology Journal*. 2018 Jun 12;2050640618783537.

Mudireddy PR, Sethi A, Siddiqui AA, Adler DG, Nieto J, Khara H, Trindade A, Ho S, Benias PC, Draganov PV, Yang D. EUS-guided drainage of postsurgical fluid collections using lumen-apposing metal stents: a multicenter study. *Gastrointestinal endoscopy*. 2018 May 1;87(5):1256-62.

Yan L, Dargan A, Nieto J, Shariha RZ, Binmoeller KF, Adler DG, DeSimone M, Berzin T, Swahney M, Draganov PV, Yang DJ, Diehl DL, Wang L, Ghulab A, Butt N, Siddiqui AA. Direct endoscopic necrosectomy at the time of transmural stent placement results in earlier resolution of complex walled-off pancreatic necrosis: Results from a large multicenter United States trial. *Endosc Ultrasound*. 2018 Jun 6.

Abbas AM, Strong AT, Diehl DL, Brauer BC, Lee IH, Burbridge R, Zivny J, Higa JT, Falcão M, El Hajj II, Tarnasky P. Multicenter evaluation of the clinical utility of laparoscopy-assisted ERCP in patients with Roux-en-Y gastric bypass. *Gastrointestinal endoscopy*. 2018 Apr 1;87(4):1031-9.

Mok SR, Khara HS, Johal AS, Confer BD, Diehl DL. Endoscopic treatment of internal hemorrhoids by use of a bipolar system. *VideoGIE*. 2017 Oct 1;2(10):290-2.

Mok SR, Khara HS, Johal AS, Confer BD, Diehl DL. Cholangioscopic appearance after radiofrequency ablation of cholangiocarcinoma. *VideoGIE*. 2017 Oct 1;2(10):279-83.

Wani S, Keswani R, Hall M, Han S, Ali MA, Brauer B, Carlin L, Chak A, Collins D, Cote GA, Diehl DL. A prospective multicenter study evaluating learning curves and competence in endoscopic ultrasound and endoscopic retrograde cholangiopancreatography among advanced endoscopy trainees: the Rapid Assessment of Trainee Endoscopy Skills Study. *Clinical Gastroenterology and Hepatology*. 2017 Nov 1;15(11):1758-67.

Yang D, Amin S, Gonzalez S, Mullady D, Edmundowicz SA, DeWitt JM, Khashab MA, Wang AY, Nagula S, Buscaglia JM, Bucobo JC, Diehl DL, et al. Clinical outcomes of EUS-guided drainage of debris-containing pancreatic pseudocysts: a large multicenter study. *Endoscopy international open*. 2017 Feb;5(2):E130.

Cai JX, Diehl DL, Kiesslich R, Storm AC, El Zein MH, Tieu AH, Hoffman A, Singh VK, Khashab MA, Okolo PI, Kumbhari V. A multicenter experience of through-the-scope balloon-assisted enteroscopy in surgically altered gastrointestinal anatomy. *Surgical endoscopy*. 2017 Jul 1;31(7):2753-62.

Mok SR, Arif M, Diehl DL, Khara HS, Ho HC, Elfant AB. Safety and efficacy of minimal biliary sphincterotomy with papillary balloon dilation (m-EBS+ EPBD) in patients using clopidogrel or anticoagulation. *Endoscopy international open*. 2017 Mar;5(3):E157.

Diehl DL, McKee J, Rezk AN, Adler DG, Fairley K, Khara HS. Current Practice Patterns for Esophageal Stenting in Malignancy: A Web-Based Survey of Endoscopists Who Place Self Expanding Metal Stents. PRACTICAL GASTROENTEROLOGY. 2017 May 1;41(5):24-34.

Rodrigues J, Diehl DL. Cholangiocarcinoma: Clinical Manifestations and Diagnosis. Techniques in Gastrointestinal Endoscopy. 2016;18:75-82

Critchley-Thorne RJ, Duits LC, Prichard JW, Davison JM, Jobe BA, Campbell BB, Zhang Y, Repa KA, Reese LM, Li J, Diehl DL. A Tissue Systems Pathology Assay for High-Risk Barrett's Esophagus. Cancer Epidemiology Biomarkers & Prevention. 2016 Jun 1;25(6):958-68.

Ali R, Wild D, Shieh FK, Diehl DL, Fischer M, Tamura W, Rubin DT, Kumbari, V, Okolo P, Storm A, Halpern Z, Neumann H, Khara HS, Pochapin MB, Gross SA. Deep enteroscopy with a conventional colonoscope: initial multicenter study by using a through-the-scope balloon catheter system. Gastrointest Endosc. 2015;82:855-860

Yang D, Amin S, Gonzalez S, et al. Transpapillary drainage has no added benefit on treatment outcomes in patients undergoing EUS-guided transmural drainage of pancreatic pseudocysts: a large multicenter study. Gastrointest Endosc. 2016.83:720-729

Pineda JJ, Diehl DL, Miao L, Johal AJ, Khara HS, Bhanushali A, Chen EZ. EUS-guided liver biopsy provides diagnostic samples at least comparable with percutaneous or transjugular routes. Gastrointest Endosc 2016;83:360-5

Bhattarai M, Bansal P, Diehl D, Nepal H. Pancreatic Abscess: An Unusual Presentation of Pancreatic Tail Cancer. Journal of Nepal Health Research Council. 2016 Mar 17.

Diehl DL, Adler DG. Avoiding misses and near-misses: improving accuracy in EUS. Practical Gastroenterology. May, 2015

Adler DG, Diehl DL. Missed lesions in EUS (editorial). Endoscopic Ultrasound. 2015;4:165-7

Parekh PJ, Majithia R, Diehl DL, Baron TH. Endoscopic ultrasound-guided liver biopsy. Endoscopic Ultrasound. 2015.Apr;4(2):85

Saxena P, Diehl DL, Kumbhari V, et al. A U.S. multicenter study of safety and efficacy of fully covered self-expandable metallic stents in benign extrahepatic biliary strictures. Dig Dis Sci, 2015; April:1-7

Wild JL, Younus MJ, Torres D, Widom K, Leonard D, Dove J, Hunsinger M, Blansfield J, Diehl DL, Strodel W, Shabahang MM. Same day combined endoscopic retrograde cholangiopancreatography and cholecystectomy: achievable and minimizes costs. J Trauma Acute Care Surg. 2015;78:503-9

Diehl DL, Gabrielsen J, Strodel W. The challenges of endoscopic retrograde cholangiopancreatography in gastric bypass patients: the game is not yet over. *Gastroenterology*. 2015;148:857-858

Diehl DL, Johal AS, Khara HS, Stavropoulos S, Al-Haddad M, Ramesh J, Varadarajulu S, Aslanian H, Gordon S, Shieh FK, Pineda J, Dunkelberger T, Gondim D, Chen EZ. Endoscopic Ultrasound-Guided Liver Biopsy: A Multicenter Experience. *Endoscopy International Open*. 2015. Jun;3(3):E210

Raza N, Diehl DL. Radiofrequency ablation of treatment-refractory gastric antral vascular ectasia (GAVE). *Surgical Laparoscopy, Endoscopy and Percutaneous Techniques*. 2015;25:79-82

Saxena, P, Diehl DL, Kumbhari V, et al. A U.S. multicenter study of safety and efficacy of fully covered self-expandable metallic stent in benign biliary strictures. (in press, *Gastrointest Endosc*)

Johal AS, Khara HS, Maksimik MG, Diehl DL. Endoscopic ultrasound-guided liver biopsy in pediatric patients. *Endoscopic Ultrasound*, 2014;3:191-4

Akhtar NM, Fairley KJ, Mowery AD, Chaput KJ, Kotru A, Zhu S, Diehl DL, Komar MJ. Strongyloides hyperinfection in a case of post-cadaveric solid organ transplantation. *Case Reports Internal Med*. 2014;1:242-248

Shieh FK, Luong-Player A, Khara HS, Liu H, Lin F, Shellenberger MJ, Johal AS, Diehl DL. Improved ERCP cytology brush design yields more tissue and gives higher diagnostic sensitivity in the diagnosis of malignant biliary strictures. *World Journal of Gastrointest Endosc*, 2014;6:312-317

Gaslightwala I, Khara HS, Diehl DL. Syphilitic gummas mistaken for liver metastases. *Clinical Gastro Hep*, 2014;12:e109-110

Khara HS, Diehl DL, Gross SA. Esophageal stent fracture: Case report and review of the literature. *World J Gastroenterol*. 2014 Mar 14;20 (10):2715-20.

Khara HS, Diehl DL, Metwally MJ, Schwender BJ. Bismuth subsalicylate tablet masquerading as vanishing button battery in the stomach. *Gastrointest Endosc*. 2014. 79:539

Diehl DL. Benefits of 0.025" Guidewires for ERCP. *Surgical Endoscopy*. 2014;28:2243.

Gaslightwala I, Diehl DL. Bacteremia and sepsis following radiofrequency ablation of gastric antral vascular ectasia (GAVE). *Gastrointestinal Endoscopy*. 2014.79;5:873-42014

Khashab MA, Valeshabad AK, Leung W, Camilo J, Fukami N, Shieh F, Diehl DL, Attam R, Vleggaar F, Saxena P, Freeman M, Kalloo A, Siersema P, Sherman S. Multicenter

experience with performance of ERCP in patients with an indwelling duodenal stent. *Endoscopy*. 2014. 46:252-5

Johal AS, Babich JP, Diehl DL, Good CW. Left atrial thrombus incidentally discovered during EUS. *Gastrointest Endosc*. 2013;78:544

Pineda Bonilla JJ, Diehl DL, Babameto GP, Smith RE. Massive hepatic portal venous gas and gastric pneumatosis secondary to gastric ischemia. *Gastrointest Endosc*. 2013;78:540

Hamdani U, Raza N, Haider F, Bansal P, Komar MJ, Diehl DL, Kirchner HL. Risk factors for colonoscopic perforation: a population-based study of 80118 cases. *World Journal of Gastro*. 2013;19:3596-601

Diehl DL, Blansfield JA. Symptomatic retained prophylactic pancreatic stents. *Surgery*. 2013;153:881-2

Diehl DL. Supine patient positioning for ERCP: indications and outcomes. (*accepted to publication, Gastrointestinal Endoscopy*)

Diehl DL, Babich JP. "Pseudo-target sign" after endoscopic mucosal resection in the upper GI tract. *Gastrointest Endosc*. 2012;76:918-919

Gunnerson AC, Diehl DL, Nguyen VH, Shellenberger MJ, and Blansfield J. Endoscopic duodenal variceal ligation: a series of 4 cases and review of the literature *Gastrointest Endosc*. 2012;76:900-904

Babich JP, Diehl DL, Entrup MH, Narula AP. Retrograde submucosal tunneling technique for management of complete esophageal obstruction. *Surg Laparosc Endosc Percutan Tech*. 2012;22:e232-235

Liu H, Shi JH, Anandan V, Wang HL, Diehl D, Blansfield J, Gerhard G, Lin F. Reevaluation and identification of the best immunohistochemical panel for ductal adenocarcinoma of the pancreas. *Archives of Path and Laboratory Med*. 2012;136:601-609

Diehl DL, Johal AS, Nguyen VH, Hashem HJ. Use of a forward-viewing echoendoscope for evaluation of gastrointestinal submucosal lesions. *Gastrointest Endosc*. 2012;75:428-431

Diehl DL, Jain AK, Greenwald BD. Pneumoperitoneum after esophageal cryoablation in a patient with a PEG. *Surg Laparosc Endosc Percutan Tech*. 2011 Jun;21(3):e141-22011

Devices to improve colon polyp detection.
ASGE TECHNOLOGY COMMITTEE, Mamula P, Tierney WM, Banerjee S, Desilets D, Diehl DL, Farraye FA, Kaul V, Kethu SR, Kwon RS, Pedrosa MC, Rodriguez SA, Wong Kee Song LM. *Gastrointest Endosc*. 2011 Jun;73(6):1092-7

Autofluorescence imaging.

ASGE Technology Committee, Song LM, Banerjee S, Desilets D, Diehl DL, Farraye FA, Kaul V, Kethu SR, Kwon RS, Mamula P, Pedrosa MC, Rodriguez SA, Tierney WM. *Gastrointest Endosc.* 2011 Apr;73(4):647-50

Computer-assisted personalized sedation. ASGE Technology Committee, Banerjee S, Desilets D, Diehl DL, Farraye FA, Kaul V, Kethu SR, Kwon RS, Mamula P, Pedrosa MC, Rodriguez SA, Song LM, Tierney WM. *Gastrointest Endosc.* 2011 Mar;73(3):423-7

Diehl DL, Blansfield J, Li J. Cystic pancreatic neuroendocrine tumor. *Gastrointest Endosc.* 2010 May;71(6):1064-5

Endoscopic tattooing.

ASGE Technology Committee, Kethu SR, Banerjee S, Desilets D, Diehl DL, Farraye FA, Kaul V, Kwon RS, Mamula P, Pedrosa MC, Rodriguez SA, Wong Kee Song LM, Tierney WM. *Gastrointest Endosc.* 2010 Oct;72(4):681-5

Automated endoscope reproprocessors.

ASGE Technology Committee, Desilets D, Kaul V, Tierney WM, Banerjee S, Diehl DL, Farraye FA, Kethu SR, Kwon RS, Mamula P, Pedrosa MC, Rodriguez SA, Wong Kee Song LM. *Gastrointest Endosc.* 2010 Oct;72(4):675-80

Enteral nutrition access devices.

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ABSTRACTS

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Assessment of Hepatic Steatosis by Computerized Image Analysis Using Whole Slide Scanning Technology. Pineda-Bonilla JJ, Johal AS, Miao CL, Khara HS, Li JH, Prichard JW, Chen ZM, Diehl, DL. Poster Presentation DDW May, 2014 Chicago

Deep enteroscopy with a conventional colonoscope: initial multicenter study using the NaviAid balloon system. Oral Presentation ACG, October 15, 2013 San Diego, CA

Pancreatic abscess: an unusual presentation of pancreatic tail cancer. Bhattarai M, Bansal P, Diehl DL. Poster Presentation ACG, October 15, 2013 San Diego, CA

An atypical presentation of acute pancreatitis in the setting of diabetic ketoacidosis. Akhtar N, Bansal P, Diehl DL. Oral Presentation ACG, October 15, 2013 San Diego, CA

Quantifying the effect of different colonoscope techniques on a simulated colon model. Biomedical Engineering Society (BMES) annual meeting, Sept 25-28 Seattle, WA

Multicenter experience with performance of ERCP in patients with an indwelling duodenal stent. Khashab M, et al DDW 2013

A U.S. Multicenter Study of Safety and Efficacy of Fully Covered Self-Expandable Metal Stents in Benign Biliary Strictures. Ali Kord, Wesley Leung, Joel Camilo, Norio Fukami, Frederick Shieh, David Diehl, Rajeev Attam, Frank Vleggaar, Peter Siersema, Patrick Okolo, Martin Freeman, Anthony Kalloo, Stuart Sherman, Mouen Khashab. DDW 2013

Cystic Lesions of the Pancreas: Resection versus Surveillance. Beitollahi H, Erath V, Sun H, Woll N, Diehl DL, Johal A, Blansfield JA, Shabahang MM. DDW 2013

Improved ERCP cytology brush design and standardized specimen handling yields more tissue and gives higher diagnostic sensitivity in the diagnosis of malignant biliary strictures. Frederick K. Shieh, Adelina Luong-Player, Haiyan Liu, Fan Lin, J. Matthew Shellenberger, Nicolas Inverso, Amit S. Johal, David L. Diehl. DDW 2013

Endoscopic Ultrasound-Guided Liver Biopsy: A Multicenter Experience. David L. Diehl, Amitpal S. Johal, Frederick K. Shieh, Jayapal Ramesh, Shyam Varadarajulu, Aman Ali, Mohammed Al-Haddad, Harry Aslanian, Timothy Gardner, Stuart Gordon, Jonh Pineda, Harshit Khara, Rakhee Mangla, Isaac Rajjman, DDW 2013

Endoscopic Liquid Nitrogen Spray Cryotherapy In Patients With Post-Surgical Gastric Anatomy: A Multicenter Cryotherapy Users Group Report. Alejandro L. Suarez, MD*, Dennis P. Collins, MD*, Virendra Joshi, MD#, Seth A. Gross, MD+, David L. Diehl, MD¹, John D. Horwhat, MD[^] and Mihir S. Wagh, MD⁺. Submitted to American College of Gastroenterology, 2012

Early Clinical Experience With a New EUS-Guided 19-Gauge Flexible Fine Needle Aspiration (FNA) Device: A Multicenter Study AL-Haddad, MA.; Rajjman, I; DAS, A; Sachdev, MS.; Komanduri, S; Krishnan, K; Diehl, DL. Oral Presentation, DDW, May 2012

Fully covered self-expanding metal stents for remodeling of refractory pancreatic duct strictures: a multicenter experience. Diehl DL, Siddiqui AA, Stavropolous SN, et al. DDW, May 2012

Feasibility and safety of temporary placement of a fully covered self expandable metal stent for treatment of benign biliary strictures due to chronic pancreatitis: a multi-center experience. Mehendiratta V, Kowalski TE, Diehl DL, et al. DDW, May 2012

Novel Approach to Telecytology. Kurtinecz MK, Meschter SC, Diehl DL, Nugent TJ, Hashem HJ, Lin F American Society of Cytopathology, 2009

INVITED FACULTY

London Live Endoscopy. King's College School of Medicine. November, 2019

Orlando Endoscopy Live. Florida Hospital, Orlando FL. August, 2018

Frontiers of Endoscopy. Olympus America, March 2-3, Center Valley, PA

Pennsylvania Society of Gastroenterology Annual Meeting. Lecture on Swallowing disorders from A (achalasia) to Z (Zenker's). Poconos, PA October, 2016. Say No to the Knife! Management of difficult colon polyps. October, 2019

Fundamentals of Advanced Endoscopy. Course for 4th year GI fellows. Sponsored by Boston Scientific. Philadelphia PA August 18-19, 2016

Endoscopic Ultrasound Today. Master Class in EUS. Sponsored by Olympus. Bethlehem, PA. June, 2016

Flexible Endoscopic Surgery (FES) Annual Meeting. Lecture on Flexible Endoscopic Incisional Therapy for Zenker's diverticulum. Miami FL March 4-6, 2016
Endoscopic Ultrasound Today. Master Class in EUS. Sponsored by Olympus. San Diego, CA. January 25-26, 2016

Olympus ERCP/EUS Advanced Fellows Course. Chicago, IL August, 2014. Lecture and demonstration on radial EUS.

Olympus ERCP/EUS Advanced Fellows Course. Bethlehem, PA August 23-24, 2013. Lecture and demonstration on radial EUS.

Maximizing Success and Minimizing Risk in ERCP.
Presentation to Ocean Monmouth (New Jersey) Chapter of the Society of Gastroenterology Nurses and Associates (SGNA), Atlantic City, NJ. October 17, 2009

New York Society for Gastrointestinal Endoscopy 30th Annual Course (2006); invited lecture on *Management of difficult bile duct strictures*

New York Society for Gastrointestinal Endoscopy 26th to 29th (2002-2005) Annual Course; faculty in "hands-on" endoscopy skills lab

ERCP and Related Technologies: A Clinical Update
4th to 7th International Symposium on Pancreatic and Biliary Endoscopy, Torrance, California -- 1998 - 2000

Special endoscopic skills

Endoscopic retrograde cholangiopancreatography (ERCP)
Difficult cannulation, previously failed cannulation

- Needle-knife sphincterotomy
- Pancreatic endotherapy
- Management of pancreas divisum
- Mechanical and electrohydraulic lithotripsy of stone
- SpyGlass cholangioscopy
- Endoscopic ampullectomy

- Endoscopic ultrasound (EUS)
 - Diagnostic including fine needle aspiration (FNA)
 - Therapeutic injection
 - Celiac plexus neurolysis
 - EUS-guided abscess drainage
 - EUS-guided pancreatic and biliary access
 - EUS-guided enteral access

- Endoscopic drainage of pancreatic pseudocysts and walled-off necrosis

- Enteral stenting (esophagus, gastroduodenum, small intestine, colorectum)

- Management of complex strictures of the GI tract

- Barrett's ablation
 - Mucosal resection
 - BARRX RFA ablation
 - Cryoablation

- Complex polypectomy and mucosectomy (colon, stomach, duodenum)
 - Including use of Rotablator and full thickness resection technologies

- Endoscopic submucosal dissection (ESD)

- Endoscopic sewing

- Peroral endoscopic myotomy (POEM)