

Christopher Lawrence, M.D.  
Medical University of South Carolina  
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Charleston, SC 29425-2900

**ACADEMIC RANK**

Assistant Professor  
Division of Gastroenterology & Hepatology  
Department of Internal Medicine  
Medical University of South Carolina  
August 2004 - present

**EDUCATION**

Duke University Durham, North Carolina  
Bachelor of Arts, Psychology  
August 1989 - December 1992

University of Mississippi School of Medicine Jackson, Mississippi  
Doctor of Medicine, *Cum Laude*  
August 1993 - May 1997

Georgetown University Hospital Washington, D.C.  
Resident, Internal Medicine  
June 1997 - June 2000

University of Virginia Health System Charlottesville, Virginia  
Fellow, Gastroenterology and Hepatology  
July 2000 - June 2003

Maine Medical Center Portland, Maine  
Fellow, Therapeutic Endoscopy  
July 2003 – June 2004

**BOARD CERTIFICATION**

American Board of Internal Medicine, 2000  
American Board of Internal Medicine – Gastroenterology, 2005

**MEDICAL LICENSURE**

Commonwealth of Virginia #0101058995 (expired)  
Maine #016189 (expired)  
South Carolina #26900 (active)

**AWARDS/DISTINCTIONS**

- ❖ Alpha Omega Alpha, University of Mississippi School of Medicine, 1996
- ❖ Phi Kappa Phi National Honor Society, University of Mississippi School of Medicine, 1996
- ❖ Merck Manual Award, University of Mississippi School of Medicine, 1997
- ❖ *Cum Laude*, University of Mississippi School of Medicine, 1997

**EDUCATION/TEACHING**

- ❖ Member – Residency Council, Department of Internal Medicine, Georgetown University Hospital, 2000-2001
- ❖ Course assistant, Introduction to Clinical Medicine, Georgetown University Hospital, 2000
- ❖ Course assistant, Introduction to Clinical Medicine, University of Virginia School of Medicine, 2001
- ❖ Course assistant, Introduction to Clinical Medicine, University of Virginia School of Medicine, 2002
- ❖ Board review in gastroenterology and hepatology for internal medicine housestaff, University of Virginia Department of Internal Medicine, 2002
- ❖ Director, Weekly fellows' endoscopy conference, University of Virginia Division of Gastroenterology, 2002-2003
- ❖ Internal Medicine board review for housestaff, "GI Bleeding", Medical University of South Carolina, 2005
- ❖ Lecture for Physician Assistant training program (annually), "Disorders of the Biliary System", Medical University of South Carolina, 2005-
- ❖ Physical Diagnosis preceptor, Medical University of South Carolina, 2006-
- ❖ Professor Rounds instructor for Junior medical students, Medical University of South Carolina, 2006-
- ❖ Course faculty, First Year Fellows' Course, American Society of Gastrointestinal Endoscopy, Chicago, IL, 2008

**EDUCATION/JOURNALS**

- ❖ Reviewer, Digestive Disease and Sciences, 2004-
- ❖ Reviewer, Gastrointestinal Endoscopy, 2004-
- ❖ Reviewer, American Journal of the Medical Sciences, 2006-

**DEPARTMENTAL/DIVISIONAL RESPONSIBILITIES**

- ❖ Attending & Consulting Physician, Digestive Disease Center, Medical University of South Carolina, 2004-
- ❖ Attending Physician, ERCP and general endoscopy, Medical University of South Carolina, 2004-
- ❖ Attending Physician, General endoscopy, Ralph H. Johnson VA Medical Center, Charleston, SC, 2004-
- ❖ Coordinator, Weekly multidisciplinary pancreaticobiliary case conference, Medical University of South Carolina, 2004-
- ❖ Attending Physician, General endoscopy, East Cooper Regional Medical Center, Mt. Pleasant, SC, 2005-2006
- ❖ Member, Nurse-Physician Endoscopy Work Group, Digestive Disease Center, Medical University of South Carolina, 2005-

**DEPARTMENTAL/DIVISIONAL RESPONSIBILITIES, continued**

- ❖ Course director, Clinical Gastroenterology, 4<sup>th</sup> year medical student curriculum, Medical University of South Carolina 2006-2009
- ❖ Education representative for division of gastroenterology, Department of Internal Medicine education committee 2006-2009

**PROFESSIONAL AFFILIATIONS**

- ❖ Member, American College of Physicians/American Board of Internal Medicine
- ❖ Member, American College of Gastroenterology
- ❖ Member, American Gastroenterological Association
- ❖ Member, American Society for Gastrointestinal Endoscopy
- ❖ Appointee, Public Relations Committee, American Society of Gastrointestinal Endoscopy

**PRESENTATIONS**

**Lawrence, C.** “Extra-Intestinal Manifestations of Inflammatory Bowel Disease.” Grand Rounds, Arlington Hospital, Arlington, Virginia, 2000

**Lawrence C, Mize JR, Berg CL, Bamias G, Cominelli F.** “New Directions: Chronic Liver Inflammation in SAMP1/YitFc Mice.” Immunogenetic Mechanisms of Experimental Crohn’s Disease: Program Project Grant Advisory Board Meeting, University of Virginia Health System, 2002

**Lawrence C, Bickston SJ.** “Occult Colovesical Fistula: Utility of the Bourne Test.” Poster Presentation, American College of Gastroenterology National Fellows’ Forum, Vail, Colorado, 2002

**Lawrence C, Howell DA, Lukens FJ, Sheth SG, Mattia A, Conklin D.** ERCP tissue sampling to maximize yield: A randomized study of two forceps types during tissue sampling. Digestive Disease Week, New Orleans, Louisiana, 2004

**Lawrence C, Howell DA, Conklin DE, Stefan AM, Martin RF.** Delayed palliative pancreaticoduodenectomy for cancer patients with prior ERCP placed non-foreshortening self-expanding metal stents (SEMS): A positive outcome. Digestive Disease Week, New Orleans, Louisiana, 2004

“ERCP in acute pancreatitis.” MUSC Advanced ERCP Tutorial for Physicians. Medical University of South Carolina, 2005

“Inflammatory Bowel Disease: update on diagnostics and therapeutics.” Grand Rounds, Department of Internal Medicine, Medical University of South Carolina, 2005

“Upper GI update.” Intensive Review of Family Medicine, Department of Family Medicine, Kiawah Island Resort, South Carolina, 2006

Howell DA, Sanders M, Shah R, Bernadino K, **Lawrence C.** Argon plasma coagulation to modify enteric stents. ASGE oral presentation, Digestive Disease Week, Los Angeles, California, 22 May 2006

**PRESENTATIONS, continued**

“Placement of stents at ERCP: Techniques, tips, avoiding turmoil.” Carolina and Low Country SGNA Regional Meeting, Columbia, South Carolina, 14 October 2006.

“Novel Use of an Ultra-thin Gastroscope for Percutaneous Cholangioscopy and Electrohydraulic Lithotripsy.” Shown at the ASGE Video Learning Center during Digestive Disease Week, Washington, D.C. 2007.

“Introduction to diagnostic upper endoscopy.” First Year Fellows’ Course, ASGE, Chicago, IL 2008.

“Unexplained abdominal pain: refer or reassure.” Updates in General Internal Medicine for Primary Care, Charleston, South Carolina, 8 March 2009.

## **RESEARCH**

Co-Investigator, North American Pancreatitis Study II (NAPS 2). PI: David C. Whitcomb, M.D., Ph.D. Funding: National Institute of Health, 2004-2006.

Co-Investigator, Malignant Obstruction ZILVER Against Routine Therapy (MOZART I). Multicenter prospective randomized controlled trial of the nitinol Zilver expandable endoprosthesis in the palliation of extrahepatic malignant biliary obstruction. PI: Douglas A. Howell, M.D. Funding: Wilson-Cook Medical, Inc., 2004-2006.

Primary investigator, Pilot study of the efficacy and tolerability of duloxetine in patients with suspected functional pancreatic/biliary pain (sphincter of Oddi dysfunction). Funding: Eli Lilly and Co., 2007-present.

Primary investigator (local), A phase III study to demonstrate the efficacy and safety of RG1068 (synthetic human secretin)-enhanced magnetic resonance cholangiopancreatography (MRCP) in the evaluation of subjects with a history of acute or acute recurrent pancreatitis. Funding: Repligen Corp., 2008-present.

## **BIBLIOGRAPHY**

Al-Osaimi AS, **Lawrence C**, Le TH, Comerford LW, Bickston SJ. Gastric antral vascular ectasia: a university hospital-based experience. *Am J Gastroenterol* 2002;97:S54.

**Lawrence C**, Mize JR, Berg CL, Bamias G, Cominelli F. A novel model of chronic hepatitis in the SAMP1/YitFc mouse. *Hepatology* 2002;36:4, part 2 (abstract).

**Lawrence C**, Shaffer HA, Bickston SJ. Image of the Month. *Gastroenterology* 2003;125:291.

**Lawrence C**, Abdrabbo KM. Angioedema as a complication of upper endoscopy. *Ann Intern Med* 2003;139:W-W62.

Howell DA, Shah RJ, Parsons WG, **Lawrence C**. Diagnosis and management of pseudocysts of the pancreas. UpToDate in Gastroenterology and Hepatology 2004

**BIBLIOGRAPHY, continued**

**Lawrence C**, Howell DA, Lukens FJ, Sheth SG, Mattia A, Conklin D. ERCP tissue sampling to maximize yield: A randomized study of two forceps types during tissue sampling. *Gastrointest Endosc* 2004;59:AB98.

**Lawrence C**, Howell DA, Conklin DE, Lukens FJ, Hanson BL. ERCP sphincterotomy without initial manometry for type II sphincter of Oddi dysfunction patients: A safe and effective strategy. *Gastrointest Endosc* 2004;59:AB99.

**Lawrence C**, Howell DA, Conklin DE, Stefan AM, Martin RF. Delayed palliative pancreaticoduodenectomy for cancer patients with prior ERCP placed non-foreshortening self-expanding metal stents (SEMS): A positive outcome. *Gastrointest Endosc* 2004;59:AB107.

**Lawrence C**, Desilets DJ, Conklin DE, Lukens FJ, Sheth SG, Parsons WG III, Howell DA. Endoscopic 6mm Zilver self-expanding metal stents (SEMS) for malignant obstruction of the bifurcation: A pilot study. *Gastrointest Endosc* 2004;59:AB188.

**Lawrence C**, Howell DA, Stefan AM, Lukens FJ. Endoscopic evaluation of the minor papilla prior to pancreatography at ERCP: A prospective study. *Gastrointest Endosc* 2004;59:AB206.

**Lawrence C**, Howell DA, Stefan AM, Conklin DE, Lukens FJ, Martin RF, Landes A, Benz B. Disconnected pancreatic tail syndrome (DPTS): Clinical features, management, & outcome. *Gastrointest Endosc* 2004;59:AB208.

Bernadino KP, Howell DA, **Lawrence C**, Ansari A, Eswaran S, Mattia A. Endoscopic and histologic evidence of cholesterolosis of the sphincter of Oddi at ERCP sphincterotomy: a possible cause of fibrotic stenosis. *Gastrointest Endosc* 2005;61:AB199.

Cho YD, Faias S, Hoffman BJ, Payne KM, **Lawrence C**, Romagnuolo J, Cotton PB, Hawes RH. Endoscopic treatment of duodenal and ampullary adenomas: a single center study. *Gastrointest Endosc* 2005;61:AB201

Bernadino KP, **Lawrence C**, Ansari A, Martin RF, Cobean R, Wolff R, Stefan A, Howell DA. Successful ERCP in the gastric bypass patient: employing surgical access to the excluded stomach. *Gastrointest Endosc* 2005;61:AB199.

Bernadino KP, Howell DA, **Lawrence C**, Ansari A, Mattia A. Intraoperative histologic diagnosis during therapeutic ERCP: high yield of forceps squash prep. *Gastrointest Endosc* 2005;61:AB198.

Romagnuolo J, Cotton PB, Mauldin P, Hawes RH, **Lawrence C**, Payne KM. Changing trends in ERCP practice over a decade. *Gastrointest Endosc* 2005;61:AB155.

**BIBLIOGRAPHY, continued**

**Lawrence C**, Hawes RH, Cotton PB, Romagnuolo J, Payne KM. Spontaneous passage of small diameter (3F) pancreatic duct stents at 30 day follow-up. *Gastrointest Endosc* 2005;61:AB193.

Howell DA, Bernadino KP, Ansari A, **Lawrence C**. Magnetic colonoscopic imaging: can it reduce patient discomfort and shorten post-procedure recovery? *Gastrointest Endosc* 2005;61:AB89.

Gallagher J, Romagnuolo J, Hawes RH, Payne KM, **Lawrence C**, Cotton PB. Severe and fatal outcomes of ERCP: A review of a decade of ERCPs. *Gastrointest Endosc* 2005;61:AB150.

Howell DA, Bernadino KP, Ansari A, Eswaran S, **Lawrence C**. Refined technique of pancreatic duct sphincterotomy (PDES) produces results comparable to biliary sphincterotomy: an eight year cohort study. *Gastrointest Endosc* 2005;61:AB191.

Attwell A, **Lawrence C**, Hawes RH, Cotton PB, Romagnuolo J. Endoscopic pancreatic sphincterotomy for pancreas divisum using a needle-knife or standard pull-type technique: safety and re-intervention rates. *Gastrointest Endosc* 2005;61:AB187.

Romagnuolo J, Cotton PB, Mauldin P, Hawes RH, **Lawrence C**, Payne KM, Durkalski V. Predictors of ERCP procedure time: a multivariate analysis of 10,000 ERCPs. *Gastrointest Endosc* 2005;61:AB155.

Bernadino KP, Howell DA, **Lawrence C**, Ansari A, Lukens FJ, Sheth SG, Shah RJ. Near absence of septic complications following successful therapeutic ERCP justifies selective intravenous and intracontrast use of antibiotics. *Gastrointest Endosc* 2005;61:AB187.

Bickston SJ, Foley E, **Lawrence C**, Rockhoff T, Shaffer HA, Yeaton P. Terminal ileal stricture in Crohn's disease: treatment using a metallic enteral endoprosthesis. *Dis Colon Rectum* 2005;48:1081-5.

Howell, DA, **Lawrence C**, Sheth S, Shah RJ. Dropped clip endoscope obstruction: recognition and management. *J Clin Gastroenterol* 2005;39:549-50.

Evans JT, Delege MH, Lawrence C, Lewin D. Acute on chronic intestinal pseudo-obstruction as a cause of death in a previously healthy twenty-year-old male. *Dig Dis Sci* 2006;51:647-51.

Eswaran SL, Howell DA, Sanders MK, Loew BJ, Bernadino KP, Ansari A, **Lawrence C**, Campana JM. Factors predicting uncomfortable colonoscopy: pre-procedure selection criteria for sedation. *Gastrointest Endosc* 2006;63:AB210.

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Sanders MK, Howell D, Bernadino KP, Stefan AM, **Lawrence C**, Loew BJ, Eswaran SL, Mattia AR. Expanded tissue sampling protocol incorporating a new forceps biopsy technique at ERCP maximizes diagnostic sensitivity. *Gastrointest Endosc* 2006;63:AB281.

Carnes M, Cotton PB, Hawes RH, **Lawrence C**, Payne M, Romagnuolo J. Combined endoscopic biliary sphincterotomy and large balloon dilation for large common bile duct stones. *Gastrointest Endosc* 2006;63:AB287.

Howell DA, Sanders MK, Bernadino KP, **Lawrence C**, Kortan PP, May G, Shah RJ, Chen Y, Parsons WG, Hawes RH, Cotton PB, Slivka A, Ahmad J, Lehman GA, Sherman S, Desilets DJ, Neuhaus H, Schumacher B. Randomized controlled trial (RCT) of a new nitinol non-foreshortening self-expanding metal stent (SEMS) for malignant biliary obstruction: an international multi-center comparison in two diameters to Wallstent. *Gastrointest Endosc* 2006;63:AB298.

Sanders MK, Howell DA, Loew BJ, Eswaran SL, Stefan AM, Bernadino KP, **Lawrence C**, Lukens FJ. Changing spectrum of perforations at ERCP in the new millennium: implications for diagnosis and management. *Gastrointest Endosc* 2006;63:AB311.

**Lawrence C**, Howell DA, Conklin DE, Stefan AM, Martin RF. Delayed pancreaticoduodenectomy for cancer patients with prior ERCP-placed, non-foreshortening, self-expanding metal stents (SEMS): a positive outcome. *Gastrointest Endosc* 2006;63:804-7.

Al-Osaimi AM, **Lawrence C**, Li TH, Comerford LW, Northup PG, Caldwell, SH, Bickston SJ. Gastric antral vascular ectasia: 75 cases with long term follow-up. *Gastroenterology* 2006;130:A466.

Eswaran SL, Sander M, Bernadino KP, Ansari A, **Lawrence C**, Stefan A, Mattia A, Howell DA. Success and complications of endoscopic removal of giant duodenal and ampullary polyps: a comparative series. *Gastrointest Endosc* 2006;64:925-32.

Rhodes DY, Appalaneni V, Cotton PB, Hawes RH, Hoffman BJ, **Lawrence C**, Payne M, Romagnuolo J. Can EUS assessment for chronic pancreatitis predict pancreaticobiliary manometry results at ERCP? *Gastrointest Endosc* 2007;65:AB305.

Vignesh S, Agrawal A, **Lawrence C**, Hoffman BJ, Hawes RH, Adams DB, Romagnuolo J. Natural history of branch duct type of pancreatic intraductal papillary mucinous neoplasm (BD-IPMN). *Gastrointest Endosc* 2007;65:AB:297.

Vittal H, Howell DA, **Lawrence C**, Sanders MK, Delenick MB, Stefan AM, Bernadino KP, Rutstein LA, Martin RF, Radke FR. ERCP evaluation and treatment for pancreaticobiliary complications following

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pancreaticoduodenectomy (PDE/Whipple's resection). *Gastrointest Endosc* 2007;65:AB247.

Howell DA, Loew BJ, Vittal H, Sanders MK, Bernadino KP, **Lawrence C**, Mattia AR. Immediate tissue diagnosis during ERCP using a new simple forceps biopsy cytologic preparation: technique, yield, and outcome. *Gastrointest Endosc* 2007;65:AB235.

Vittal H, Howell DA, Sanders MK, Desilets DJ, Kortan PP, May GR, Shah RJ, Chen YK, Parsons WG, Hawes RH, Cotton PB, **Lawrence C**, Slivka A, Ahmad J, Lehman GA, Sherman S, Neuhaus H, Schumacher B. Mechanisms of occlusion of uncoated self-expanding metal biliary stents (SEMS): final results of a multi-center comparative study. *Gastrointest Endosc* 2007;65:AB245.

**Lawrence C**, Cotton PB, Romagnuolo J, Payne KM, Rawls E, Hawes RH. Small prophylactic pancreatic duct stents: An assessment of spontaneous passage and stent-induced ductal abnormalities. *Endoscopy* 2007;39:1082-5.

**Lawrence C**, Howell DA, Stefan AM, Conklin DE, Lukens FJ, Martin RF, Landes A, Benz B. Disconnected pancreatic tail syndrome (DPTS): potential for endoscopic therapy and results of long-term follow-up. *Gastrointest Endosc* 2008;67:673-9.

Pham BV, Morgan K, Romagnuolo J, Glenn J, Bazaz S, **Lawrence C**, Hawes RH. Pilot comparison of adhesion formation following colonic perforation and repair in a pig model using a transgastric, laparoscopic, or open surgical technique. *Endoscopy* 2008;40:664-9.

**Lawrence C**, Romagnuolo J, Cotton PB, Payne KM, Hawes RH. Post-ERCP pancreatitis rates do not differ between needle-knife and pull-type pancreatic sphincterotomy techniques: A multi-endoscopist 14 year experience. *Gastrointest Endosc*, pending publication.

Yadav D, Hawes RH, Brand RE, Anderson MA, Money ME, Banks PA, Bishop MD, Baillie J, Sherman S, DiSario J, Burton FR, Gardner TB, Amann ST, Gelrud A, **Lawrence C**, Elinoff B, Greer JB, O'Connell M, Barmada MM, Slivka A, Whitcomb DC. Alcohol consumption, cigarette smoking and the risk of recurrent acute and chronic pancreatitis. *Arch Intern Med*, pending publication.

**Lawrence C**, Cotton PB. Gadolinium as an alternative contrast agent for therapeutic ERCP in the iodine-allergic patient. *Endoscopy*, pending publication.

**Lawrence C**, Stefan AM, Howell DA. Endoscopic appearance of the minor papilla predicts findings at pancreatography. *Gastrointest Endosc*, submitted