

Udayakumar Navaneethan, MD, FACG, FASGE

EDUCATION:

M.D, Madras Medical College, 2006
Dr. MGR Medical University, India

POST-DOCTORAL TRAINING:

Research Fellow, Department of Gastroenterology, 2006-2007
Stanley Medical College, India

Internship and Residency in Internal Medicine 2007-2010
University Hospital/ University of Cincinnati College of Medicine

Fellowship in Gastroenterology 2010-2013
The Cleveland Clinic, Cleveland

Fellowship in IBD 2011-2012
The Cleveland Clinic, Cleveland

Fellowship in Advanced Endoscopy 2013-2014
The Cleveland Clinic, Cleveland

LICENSURE AND BOARD CERTIFICATIONS:

DEA: 2014-
Medical License, Ohio: 2012-2016
Medical License, Florida: 2014-
Internal Medicine: 2010
Gastroenterology: 2013

PROFESSIONAL MEMBERSHIP:

Member, Alpha Omega Alpha 2009
Member, American Medical Association 2009
Member, American Gastroenterology Association 2009
Member, American College of Gastroenterology 2010
Member, American Society of Gastrointestinal endoscopy 2010
Editorial Board Member, World Journal of Gastroenterology 2010
Associate Editor, BMC Gastroenterology 2012
Editorial Board Member, World Journal of Hepatology 2013

EMPLOYMENT HISTORY:

Clinical Instructor in Medicine, 2007-2010

University of Cincinnati College of Medicine,
Cincinnati, OH

House staff in Internal Medicine, 2007-2010
University Hospital/University of Cincinnati College of Medicine
Cincinnati, OH

Fellow in Gastroenterology, 2010-2013
The Cleveland Clinic
Cleveland, OH

Advanced Fellow in IBD, 2011-2012
The Cleveland Clinic
Cleveland, OH

Advanced Fellow in Interventional Endoscopy, 2013-2014
The Cleveland Clinic
Cleveland, OH

Center for Interventional Endoscopy, July 2014-Dec 2020
Advent Health,
601 East Rollins Street
Orlando, FL 32803

Director, IBD Center and Interventional IBD Unit, April 2016-Dec 2020
Advent Health, Orlando

Medical Director, Center for IBD, Jan 2021-Present
Digestive Health Institute,
Orlando Health, Orlando

HONORS AND AWARDS

Prof. Muthusethupathi Gold Medal Award, Dr.MGR Medical University, India	2006
Resident Scholar Award, American Association of Liver Disease	2008
National Pancreas Foundation Fellow Award	2009
Investing in the Future Award, Digestive Disease Week 2009	2009
Alpha Omega Alpha, University of Cincinnati College of Medicine	2009
Honorary Research Presentation in Internal Medicine Grand Rounds University of Cincinnati College of Medicine, Cincinnati, OH	2009
IBD Working Group Grant Award	2011
Fellowship to Leadership Grant Award	2011
Invited Research Presentation, North American Gastroenterology Fellows Conference	2011
IBD Mentoring Travel Award Grant	2011
Invited Oral Presentation, Crohn's and Colitis Foundation of America Conference	2011
Invited Oral Presentation,	

Digestive Disease Week	2012
American College of Gastroenterology Grant	2012
Invitation to be Associate Editor, BMC Gastroenterology	2012
American College of Gastroenterology Grant	2013
Fellowship, American College of Physicians	2013
ACG Governors Award for Excellence in Clinical Research	2013
Presidential Plenary Oral Presentation, American College of Gastroenterology	2013
Invited Oral Presentation, Digestive Disease Week	2014
Invited Oral Presentation, Digestive Disease Week	2015
Moderator, ASGE Topic Forum at DDW 2015	2015
Invited Oral Presentation, Digestive Disease Week	2016
Moderator, ASGE Topic Forum at DDW 2016	2016
Fellowship, American College of Gastroenterology	2016
Plenary Oral Presentation, American College of Gastroenterology	2017
Invited Oral Presentation, Digestive Disease Week	2020
Fellowship, American Society of Gastrointestinal Endoscopy	2019
Founding Member, Global Interventional IBD group	2019

ELECTED OR ASSIGNED COMMITTEES

National

Educational Affairs Committee, American College of Gastroenterology	2021-2024
Publications Committee, American College of Gastroenterology	2014-2020
Practice Parameters Committee, American College of Gastroenterology	2015-2018
Technology Committee, American Society of Gastrointestinal Endoscopy	2015-2018
DDW Program Committee, American Society of Gastrointestinal Endoscopy	2019-2022
Research Committee, Crohn's and Colitis Foundation	2019-2022

Local

Chair, Professional Education Committee, Crohn's and Colitis Foundation, Florida	2020-present
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CONFERENCES:

First Annual Orlando Updates in IBD April 2015- Course Director
First Annual North Meets South Meeting, Feb 2015, Florida Hospital- Speaker
Third Orlando live EUS Sep 2015- Organizing faculty
Fourth Orlando live EUS Sep 2016- Organizing faculty

Second Annual North Meets South Meeting, Feb 2016, Florida Hospital-**Speaker**
 ACG South Regional Post Graduate Course Dec 2016-**Speaker**
 Second Annual Orlando Updates in IBD April 2016-**Course Director**
 Third Annual Orlando Updates in IBD April 2017-**Course Director**
 Fourth Annual Orlando Updates in IBD April 2018-**Course Director**
Texas Society of Gastroenterology (TSGE)-Sep 2017-ACG Meeting-Speaker
 Chennai International IBD meeting Sep 2017-**Course Co-Director**
ACG-FGS Meeting 2019- Course Co-Director
 Fifth Annual Orlando Updates in IBD April 2019-**Course Director**
 Innovations in IBD Endoscopy Oct 2020- **Course Director**
Digestive Disease Week-2011 to 2021- Invited Speaker

EDITORIAL BOARD:

Inflammatory Bowel Disease journal	2018-present
Associate Editor, BMC Gastroenterology	2012-present

REVIEWER

Reviewer, Liver International	2009-present
Reviewer, Inflammatory Bowel Disease journal	2009-present
Reviewer, Journal of Pancreas	2009-present
Reviewer and Editorial Board Member, World Journal of Gastroenterology	2010-present
Reviewer, Journal of Crohn's and Colitis	2011-present
Reviewer, BMC Gastroenterology	2011-present
Reviewer, Clinical Gastroenterology and Hepatology	2011-present
Reviewer, Gastrointestinal endoscopy	2011-present
Associate Editor, BMC Gastroenterology	2012-present
Editorial Board Member, World Journal of Hepatology	2013-present
Reviewer, Digestive endoscopy	2013-present
Reviewer, Gastroenterology Reports	2014-present
Reviewer, Endoscopy	2014-present
Reviewer, American Journal of Gastroenterology	2014-present
Reviewer, Gastroenterology	2015-present
Reviewer, Clinical and Translational Gastroenterology	2015-present
Reviewer, Liver Transplantation	2016-present
Reviewer, GUT	2016-present

GRANT REVIEWER

Crohn's and Colitis Foundation, NY	2018-present
European PSC Research Grant	2015-present

COMPLETED GRANT SUPPORT:

ACG 2013 Clinical Research Award
 07/01/17-12/01/2019

Navaneethan (PI)

Bile and serum biomarkers in diagnosing malignant biliary strictures.

Total direct costs: \$ 50,000

ACG 2013 Clinical Research Award
07/01/13-12/01/2014

Navaneethan (PI)

Bile biomarkers in distinguishing primary sclerosing cholangitis and cholangiocarcinoma

Total direct costs: \$ 10,000

ACG 2012 Clinical Research Award
07/01/12-06/01/2013

Navaneethan (PI)

Role of bile acids in the pathogenesis of colon neoplasia in patients with primary sclerosing cholangitis and ulcerative colitis

Total direct costs: \$ 10,000

Centocor Inflammatory Bowel Disease Grant
09/01/09-12/31/11

Navaneethan (Co-PI)

Interleukin 23-dependent Th 17 cells in IBD Pathogenesis: a Potential New Marker of Disease Activity

The goal of this study is to investigate the role of IL-17/IL-22 produced by Interleukin-23 dependent Th17 as well as proinflammatory cytokines in the pathogenesis of IBD.

Annual direct costs: \$ 150,000

Total direct costs: \$ 75,000

Inflammatory Bowel Disease Working Group Grant
08/01/11-1/31/2013

Navaneethan (PI) 08/01/11-

Role of IgG4 in the pathogenesis of pouchitis.

The goal of this study is to investigate the role of IgG4 in the pathogenesis of pouchitis.

Annual direct costs: \$ 40,000

Total direct costs: \$ 20,000

Entyvio (Vedolizumab) long-term safety study: An international observational prospective cohort study comparing vedolizumab to other biologic agents in patients with Ulcerative Colitis (UC) or Crohn's Disease (CD).

Principal Investigator, Sponsor: Takeda

Funding: \$35,000.00

Vedolizumab 4006 (EXPLORER): An Open-Label, Phase 4 Study to Evaluate the Efficacy and Safety of Triple Combination Therapy with Vedolizumab, IV, Adalimumab.

Principal Investigator, Sponsor: Takeda
Funding: \$45,000.00/subject

A Phase 2b, Randomized, Double-blind, Placebo controlled, Parallel-group, Multicenter Protocol to Evaluate the Safety and Efficacy of JNJ-64304500 in Subjects with Moderately to Severely Active Crohn's Disease.

Principal Investigator, Sponsor: Janssen
Funding: \$50,000.00/subject

GS-US-419-3895: A Phase 3, Double-blind, Randomized, Placebo-Controlled Study Evaluating the Efficacy and Safety of Filgotinib in the Induction and Maintenance of Remission in Subjects with Moderately to Severely Active Crohn's Disease.

Principal Investigator, Sponsor: Gilead
Funding: \$56,600.00/subject

GS-US-418-3898: A Combined Phase 2b/3, Double-Blind, Randomized, Placebo-Controlled Study Evaluating the Safety and Efficacy of Filgotinib in the Induction and Maintenance of Remission in Subjects with Moderately to Severely Active Ulcerative Colitis

Principal Investigator, Sponsor: Gilead
Funding: \$56,700.00/subject

A Phase 2/3, Randomized, Double-blind, Placebo- and Active-controlled, Parallel-group, Multicenter Protocol to Evaluate the Efficacy and Safety of Guselkumab in Subject with Moderately to Severely Active Crohn's Disease

Principal Investigator, Sponsor: Janssen
Funding: \$53,000.00/subject

A Phase 2, Double-Blind, Randomized, Placebo-Controlled Study Evaluating the Efficacy and Safety of Filgotinib in the Treatment of Perianal Fistulizing Crohn's Disease

Principal Investigator, Sponsor: Gilead
Funding: \$33,000.00/subject

M16-067 - A Multicenter, Randomized, Double-Blind, Placebo-Controlled Induction Study to evaluate the Efficacy and Safety of Risankizumab in Subjects with Moderately to Severely Active Ulcerative Colitis Who Have Failed Prior Biologic Therapy

Principal Investigator, Sponsor: AbbVie
Funding: \$340,000.00

16T-MC-AMAN: A Phase 3, Multicenter, Randomized, Double-Blind, Parallel, Placebo-Controlled Induction Study of Mirikizumab in Conventional-Failed and Biologic-Failed Patients with Moderately to Severely Active Ulcerative Colitis

Principal Investigator, Sponsor: Eli Lilly
Funding: \$25,000.00/subject

POWER - A Phase 3b, Randomized, Double-blind, Multicenter Study to Evaluate the Safety and Efficacy of Intravenous Re-induction Therapy With Ustekinumab in Patients with Moderately to Severely Active Crohn's Disease - CNTO1275CRD3008

Principal Investigator, Sponsor: Janssen
Funding: \$29,000.00/subject

A Long-Term Non-Interventional Registry to Assess Safety and Effectiveness of HUMIRA®(Adalimumab) in Patients with Moderately to Severely Active Ulcerative Colitis (UC).

Principal Investigator, Sponsor: AbbVie
Funding: \$125,000.00

GS-US-419-3896 - A Long Term Extension Study to Evaluate the Safety of Filgotinib in Subjects with Crohn's Disease.

Principal Investigator, Sponsor: Gilead
Funding: \$35,000.00/subject

GS-US-418-3899 - A Long Term Extension Study to Evaluate the Safety of Filgotinib in Subjects with Ulcerative Colitis.

Principal Investigator, Sponsor: Gilead
Funding: \$35,000.00/subject

Phase 2, Double-Blind, Randomized, Placebo- Controlled Study Evaluating the Efficacy and Safety of Filgotinib in the Treatment of Small Bowel Crohn's Disease (SBCD).

Principal Investigator, Sponsor: Gilead
Funding: \$28,000.00/subject

A Phase 4 Open-Label-Study to Evaluate Vedolizumab IV Dose Optimization on Treatment Outcomes In Non-responders With Moderately to Severely Active Ulcerative Colitis.

Principal Investigator, Sponsor: Takeda
Funding: \$24,000.00/subject

Phase 2 study to evaluate the safety and efficacy of a novel oral investigational product that targets the BMS-986165 pathway in subjects with moderate-to-severe Crohn's Disease.

Principal Investigator, Sponsor: Bristol Myers Squibb
 Funding: \$49,000.00/subject

SELECTED PUBLICATIONS (Selected from more than 240):

1. Shen B, Kochhar GS, **Navaneethan U**, et al. Endoscopic evaluation of surgically altered bowel in inflammatory bowel disease: a consensus guideline from the Global Interventional Inflammatory Bowel Disease Group. *Lancet Gastroenterol Hepatol*. 2021 Jun;6(6):482-497. doi: 10.1016/S2468-1253(20)30394-0.
2. Bang JY, Ward TJ, Guirguis S, Krall K, Contreras F, Jhala N, **Navaneethan U**, Hawes RH, Varadarajulu S. Radiology-guided percutaneous approach is superior to EUS for performing liver biopsies. *Gut*. 2021 Mar 25;gutjnl-2021-324495. doi: 10.1136/gutjnl-2021-324495. Online ahead of print.
3. Bressler B, Yarur A, Silverberg MS, Bassel M, Bellaguarda E, Fourment C, Gatopoulou A, Karatzas P, Kopylov U, Michalopoulos G, Michopoulos S, **Navaneethan U**, Rubin DT, Siffledeen J, Singh A, Soufleris K, Stein D, Demuth D, Mantzaris GJ. Vedolizumab and Anti-TNF α Real-World Outcomes in Biologic-Naïve Inflammatory Bowel Disease Patients: Results from the EVOLVE Study. *J Crohns Colitis*. 2021 Mar 31;jjab058. doi: 10.1093/ecco-jcc/jjab058. Online ahead of print.
4. Bang JY, Wilcox CM, Arnoletti JP, Peter S, Christein J, **Navaneethan U**, Hawes R, Varadarajulu S. Validation of the Orlando Protocol for endoscopic management of pancreatic fluid collections in the era of lumen-apposing metal stents. *Dig Endosc*. 2021 Jul 31. doi: 10.1111/den.14099. Online ahead of print.
5. **Navaneethan U**. You cannot go wrong: choosing digital single-operator cholangioscopy for the diagnosis of biliary strictures. *Endoscopy*. 2020 Mar;52(3):168-169.
6. **Navaneethan U**, Spencer C, Zhu X, Vargo JJ, Grove D, Dweik RA. Volatile organic compounds in bile can distinguish pancreatic cancer from chronic pancreatitis: a prospective observational study. *Endoscopy*. 2020 Sep 7. doi: 10.1055/a-1255-9169.
7. **Navaneethan U**, Lourdasamy D, LehnerNoguera V, Shen B. Safety of Endoscopy in Patients With Inflammatory Bowel Disease During the COVID-19 Pandemic. *Inflamm Bowel Dis*. 2020 Sep 18;26(10):e118-e119
8. **Navaneethan U**. Stent placement through anastomotic strictures in Crohns disease-A new beginning. *Gastrointest Endosc*. 2020 (In press)
9. **Navaneethan U**. Endoscopic stricturotomy in refractory anal strictures. *Inflammatory Bowel Disease*. 2020 (In press)
10. **Navaneethan U**, LehnerNoguera V. Prolonged Duration of SARS-CoV-2 Viral Positivity in a Crohn's Disease Patient. *Inflamm Bowel Dis*. 2020 Sep 18;26(10):e124.
11. Krishnan K, Bhutani MS, Aslanian HR, Melson J, **Navaneethan U**, Pannala R, Parsi MA, Schulman AR, Sethi A, Sullivan S, Trikudanathan G, Trindade AJ, Watson RR, Maple JT. Enhanced EUS imaging (with videos). *Gastrointest Endosc*. 2021 Feb;93(2):323-333
12. Mohan BP, Khan SR, Chandan S, Ponnada S, Shen B, **Navaneethan U**. Long-term outcomes of patients with endoscopic resection of dysplastic lesions in IBD. *Gastrointest Endosc*. 2020 (In press)
13. Young Bang J, Krall K, Jhala N, Singh C, Tejani M, Arnoletti JP, **Navaneethan U**, Hawes R, Varadarajulu S. Comparing Needles and Methods of Endoscopic Ultrasound-Guided Fine-Needle Biopsy to Optimize Specimen Quality and Diagnostic Accuracy for Patients With Pancreatic Masses in a Randomized Trial. *Clin Gastroenterol Hepatol*. 2020 Jul 8:S1542-3565(20)30905-8.

14. Bressler B, Yarur A, **Navaneethan U**, Rubin DT, Stein D, Demuth D, Mantzaris GJ. Real-World Clinical Effectiveness and Safety of Vedolizumab and Anti-TNF α Agents in Biologic-naïve Ulcerative Colitis and Crohn's Disease Patients: Results From the EVOLVE Study, *Journal of Crohns and Colitis*. 2021 (In press)
15. Chen Y, Yu Q, Farraye FA, Kochhar GS, Bernstein CN, **Navaneethan U**, Wu K, Zhong J, Schwartz DA, Wu H, Zheng JJ, Iacucci M, Kiran RP, Shen B. Patterns of endoscopy during COVID-19 pandemic: a global survey of interventional inflammatory bowel disease practice. *Intest Res*. 2020 Jun 2. doi: 10.5217/ir.2020.00037. Online ahead of print.
16. Bang JY, Sutton B, **Navaneethan U**, Hawes R, Varadarajulu S. Efficacy of Single-Operator Cholangioscopy-Guided Lithotripsy Compared With Large Balloon Sphincteroplasty in Management of Difficult Bile Duct Stones in a Randomized Trial. *Clin Gastroenterol Hepatol*. 2020 Feb 10. [Epub ahead of print]
17. Shen B, Kochhar G, **Navaneethan U**, Farraye FA, Schwartz DA, Iacucci M, Bernstein CN, Dryden G, Cross R, Bruining DH, Kobayashi T, Lukas M, Shergill A, Bortlik M, Lan N, Lukas M, Tang SJ, Kotze PG, Kiran RP, Dulai PS, El-Hachem S, Coelho-Prabhu N, Thakkar S, Mao R, Chen G, Zhang S, Suárez BG, Lama YG, Silverberg MS, Sandborn WJ. Practical guidelines on endoscopic treatment for Crohn's disease strictures: a consensus statement from the Global Interventional Inflammatory Bowel Disease Group. *Lancet Gastroenterol Hepatol*. 2020 Apr;5(4):393-405.
18. Njei B, McCarty TR, Muniraj T, Sharma P, Jamidar PA, Aslanian HR, Varadarajulu S, **Navaneethan U**. Comparative effectiveness of pharmacologic and endoscopic interventions for prevention of post-ERCP pancreatitis: a network meta-analysis. *Endosc Int Open*. 2020 Jan;8(1):E29-E40.
19. **Navaneethan U**, Moon JH, Itoi T. Biliary interventions using single-operator cholangioscopy. *Dig Endosc*. 2019 Sep;31(5):517-526.
20. **Navaneethan U**, Farraye FA. Expanding the horizons in interventional inflammatory bowel disease: endoscopic sinusotomy for the treatment of chronic pouch anastomotic sinus. *Gastrointest Endosc*. 2019 Jan;89(1):157-158. doi: 10.1016/j.gie.2018.09.009
21. **Navaneethan U**. Chromoendoscopy: Coloring the Colon to Predict Submucosal Invasive Colon Cancer. *Dis Colon Rectum*. 2019 Apr;62(4):389-391
22. Khalid S, Abbass A, Khetpal N, Shen B, **Navaneethan U**. Endoscopic detection and resection of dysplasia in inflammatory bowel disease-techniques with videos. *Int J Colorectal Dis*. 2019 Apr;34(4):569-580.
23. Mohan BP, Meyyur Aravamudan V, Khan SR, Chandan S, Ponnada S, Asokkumar R, **Navaneethan U**, Adler DG. Prevalence of colorectal cancer in cryptogenic pyogenic liver abscess patients. Do they need screening colonoscopy? A systematic review and meta-analysis. *Dig Liver Dis*. 2019 Dec;51(12):1641-1645.
24. ASGE Technology Committee, Aslanian HR, Sethi A, Bhutani MS, Goodman AJ, Krishnan K, Lichtenstein DR, Melson J, **Navaneethan U**, Pannala R, Parsi MA, Schulman AR, Sullivan SA, Thosani N, Trikudanathan G, Trindade AJ, Watson RR, Maple JT. ASGE guideline for endoscopic full-thickness resection and submucosal tunnel endoscopic resection. *VideoGIE*. 2019 Jun 29;4(8):343-350. doi:
25. Hasan MK, Kadkhodayan K, Idrisov E, Ali S, Rafiq E, Ben-Ami Shor D, Abdel-Jalil A, **Navaneethan U**, Bang J, Varadarajulu S, Hawes R, Pernicone P. Endoscopic ultrasound-guided liver biopsy using a 22-G fine needle biopsy needle: a prospective study. *Endoscopy*. 2019 Sep;51(9):818-824.

26. Bang JY, **Navaneethan U**, Hasan M, Sutton B, Hawes R, Varadarajulu S. Optimizing Outcomes of Single-Operator Cholangioscopy-Guided Biopsies Based on a Randomized Trial. *Clin Gastroenterol Hepatol*. 2020 Feb;18(2):441-448.e1.
27. ASGE technology committee, Parsi MA, Schulman AR, Aslanian HR, Bhutani MS, Krishnan K, Lichtenstein DR, Melson J, **Navaneethan U**, Pannala R, Sethi A, Trikudanathan G, Trindade AJ, Watson RR, Maple JT; ASGE Technology Committee Chair. Devices for endoscopic hemostasis of nonvariceal GI bleeding (with videos). *VideoGIE*. 2019 Jun 27;4(7):285-299.
28. Bang JY, Kirtane S, Krall K, **Navaneethan U**, gHasan M, Hawes R, Varadarajulu S. In memoriam: Fine-needle aspiration, birth: Fine-needle biopsy: The changing trend in endoscopic ultrasound-guided tissue acquisition. *Dig Endosc*. 2019 Mar;31(2):197-202.
29. Mohan BP, Shakhathreh M, Garg R, Asokkumar R, Jayaraj M, Ponnada S, **Navaneethan U**, Adler DG. Comparison of Franseen and fork-tip needles for EUS-guided fine-needle biopsy of solid mass lesions: A systematic review and meta-analysis. *Endosc Ultrasound*. 2019 Nov-Dec;8(6):382-391.
30. **Navaneethan U**, Zhu X, Parsi MA, Varadarajulu S. Pre-operative biliary drainage is associated with shortened survival time in patients with cholangiocarcinoma. *Gastroenterol Rep (Oxf)*. 2019 Jun;7(3):185-192
31. ASGE Technology Committee, Goodman AJ, Melson J, Aslanian HR, Bhutani MS, Krishnan K, Lichtenstein DR, **Navaneethan U**, Pannala R, Parsi MA, Schulman AR, Sethi A, Sullivan SA, Thosani N, Trikudanathan G, Trindade AJ, Watson RR, Maple JT. Endoscopic simulators. *Gastrointest Endosc*. 2019 Jul;90(1):1-12.
32. Mohan BP, Asokkumar R, Shakhathreh M, Garg R, Ponnada S, **Navaneethan U**, Adler DG. Adverse events with lumen-apposing metal stents in endoscopic gallbladder drainage: A systematic review and meta-analysis. *Endosc Ultrasound*. 2019 Jul-Aug;8(4):241-248.
33. ASGE Technology Committee, Trindade AJ, **Navaneethan U**, Aslanian HR, Bhutani MS, Krishnan K, Lichtenstein DR, Melson J, Pannala R, Parsi MA, Schulman AR, Sethi A, Trikudanathan G, Watson RR, Maple JT. Advances in the diagnosis and surveillance of Barrett's esophagus (with videos). *Gastrointest Endosc*. 2019 Sep;90(3):325-334.
34. Mohan BP, Jayaraj M, Asokkumar R, Shakhathreh M, Pahal P, Ponnada S, Navaneethan U, Adler DG. Lumen apposing metal stents in drainage of pancreatic walled-off necrosis, are they any better than plastic stents? A systematic review and meta-analysis of studies published since the revised Atlanta classification of pancreatic fluid collections. *Endosc Ultrasound*. 2019 Mar-Apr;8(2):82-90.
35. Mohan BP, Shakhathreh M, Garg R, Ponnada S, **Navaneethan U**, Adler DG. Efficacy and Safety of Endoscopic Ultrasound-guided Choledochoduodenostomy: A Systematic Review and Meta-Analysis. *J Clin Gastroenterol*. 2019 Apr;53(4):243-250
36. **Navaneethan U**, Zhu X, Lourdasamy D, Lourdasamy V, Shen B, Kiran R. Colorectal cancer resection rates in patients with inflammatory bowel disease: a population-based study. *Gastroenterol Rep (Oxf)*. 2018 Nov;6(4):263-269. doi: 10.1093/gastro/goy030. Epub 2018 Aug 13.
37. Shen B, Kochhar G, **Navaneethan U**, Liu X, Farraye FA, Gonzalez-Lama Y, Bruining D, Pardi DS, Lukas M, Bortlik M, Wu K, Sood A, Schwartz DA, Sandborn WJ; Global Interventional Inflammatory Bowel Disease Group. Role of interventional inflammatory bowel disease in the era of biologic therapy: a position statement from the Global Interventional IBD Group. *Gastrointest Endosc*. 2019 Feb;89(2):215-237
38. Ali S, Hawes RH, Kadkhodayan K, Rafiq E, **Navaneethan U**, Bang JY, Varadarajulu S, Hasan MK. Utility of rapid onsite evaluation of touch imprint cytology from endoscopic and

- cholangioscopic forceps biopsy sampling (with video). *Gastrointest Endosc.* 2019 Feb;89(2):340-344
39. Bang JY, **Navaneethan U**, Hasan MK, Sutton B, Hawes R, Varadarajulu S. Non-superiority of lumen-apposing metal stents over plastic stents for drainage of walled-off necrosis in a randomised trial. *Gut.* 2018 Jun 1. pii: gutjnl-2017-315335. doi: 10.1136/gutjnl-2017-315335. [Epub ahead of print]
 40. Bang JY, **Navaneethan U**, Hasan M, Hawes R, Varadarajulu S. Stent placement by EUS or ERCP for primary biliary decompression in pancreatic cancer: a randomized trial (with videos). *Gastrointest Endosc.* 2018 Mar 21. pii: S0016-5107(18)30216-5. doi: 10.1016/j.gie.2018.03.012. [Epub ahead of print]
 41. Feng Y, Navaneethan U, Zhu X, Varadarajulu S, Schwartz I, Hawes R, Hasan M, Yang A. Prophylactic rectal indomethacin may be ineffective for preventing post-endoscopic retrograde cholangiopancreatography pancreatitis in general patients: A meta-analysis. *Dig Endosc.* 2017 May;29(3):272-280
 42. Bang JY, **Navaneethan U**, Hasan M, Hawes R, Varadarajulu S. Endoscopic Ultrasound-guided Specimen Collection and Evaluation Techniques Affect Diagnostic Accuracy. *Clin Gastroenterol Hepatol.* 2018 Mar 11. pii: S1542-3565(18)30259-3. doi: 10.1016/j.cgh.2018.03.004. [Epub ahead of print]
 43. Bang JY, Hebert-Magee S, **Navaneethan U**, Hasan MK, Hawes R, Varadarajulu S. EUS-guided fine needle biopsy of pancreatic masses can yield true histology: results of a randomised trial. *Gut.* 2017 Oct 7. pii: gutjnl-2017-315154. doi: 10.1136/gutjnl-2017-315154. [Epub ahead of print]
 44. **Navaneethan U**, Lourdasamy D, Gutierrez NG, Zhu X, Vargo JJ, Parsi MA. New approach to decrease post-ERCP adverse events in patients with primary sclerosing cholangitis. *Endosc Int Open.* 2017 Aug;5(8):E710-E717
 45. **Navaneethan U**, Edminister T, Zhu X, Kommaraju K, Glover S. Vedolizumab Is Safe and Effective in Elderly Patients with Inflammatory Bowel Disease. *Inflamm Bowel Dis.* 2017 Apr;23(4):E17.
 46. **Navaneethan U**, Hasan MK, Kommaraju K, Zhu X, Hebert-Magee S, Hawes RH, Vargo JJ, Varadarajulu S, Parsi MA. Digital, single-operator cholangiopancreatography in the diagnosis and management of pancreatobiliary disorders: a multicenter clinical experience (with video). *Gastrointest Endosc.* 2016 Oct;84(4):649-55
 47. Bang JY, Hebert-Magee S, **Navaneethan U**, Hasan MK, Hawes R, Varadarajulu S. EUS-guided fine needle biopsy of pancreatic masses can yield true histology: results of a randomised trial. *Gut.* 2017 Oct 7. pii: gutjnl-2017-315154. doi: 10.1136/gutjnl-2017-315154. [Epub ahead of print]
 48. Ali S, Asad Ur Rahman, **Navaneethan U**. An Unusual Cause of Recurrent Gastrointestinal Bleeding After Whipple's Surgery. *Gastroenterology.* 2017 Aug;153(2):e1-e2
 49. **Navaneethan U**, Njei B, Zhu X, Kommaraju K, Parsi MA, Varadarajulu S. Safety of ERCP in patients with liver cirrhosis: a national database study. *Endosc Int Open.* 2017 Apr;5(4):E303-E314.
 50. ASGE Technology Committee, Trikudanathan G, Pannala R, Bhutani MS, Melson J, **Navaneethan U**, Parsi MA, Thosani N, Trindade AJ, Watson RR, Maple JT. EUS-guided portal vein interventions. *Gastrointest Endosc.* 2017 May;85(5):883-888
 51. 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

52. Bang JY, Wilcox CM, **Navaneethan U**, Hasan MK, Peter S, Christein J, Hawes R, Varadarajulu S. Impact of Disconnected Pancreatic Duct Syndrome on the Endoscopic Management of Pancreatic Fluid Collections. *Ann Surg.* 2016 Nov 15. [Epub ahead of print]
53. Njei B, McCarty TR, Varadarajulu S, **Navaneethan U**. Cost utility of ERCP-based modalities for the diagnosis of cholangiocarcinoma in primary sclerosing cholangitis. *Gastrointest Endosc.* 2016 Aug 30. pii: S0016-5107(16)30526-0. doi: 10.1016/j.gie.2016.08.020. [Epub ahead of print]
54. Njei B, McCarty TR, Varadarajulu S, **Navaneethan U**. Systematic review with meta-analysis: endoscopic retrograde cholangiopancreatography-based modalities for the diagnosis of cholangiocarcinoma in primary sclerosing cholangitis. *Aliment Pharmacol Ther.* 2016 Dec;44(11-12):1139-1151
55. **Navaneethan U**. Diagnosis of cholangiocarcinoma in primary sclerosing cholangitis: finding a needle in a haystack. *Endoscopy.* 2016 May;48(5):417-8.
56. **Navaneethan U**, Lourdasamy V, Njei B, Shen B. Endoscopic balloon dilation in the management of strictures in Crohn's disease: a systematic review and meta-analysis of non-randomized trials. *Surg Endosc.* 2016 Apr 28. [Epub ahead of print]
57. Jegadeesan R, **Navaneethan U**, Gutierrez NG, Venkatesh PG, Hammel JP, Sanaka MR, Shen B. Pattern of Inflammation on Surveillance Colonoscopy Does Not Predict Development of Colitis-associated Neoplasia. *Inflamm Bowel Dis.* 2016 Sep;22(9):2221-8
58. Varadarajulu S, Bang JY, Hasan MK, **Navaneethan U**, Hawes R, Hebert-Magee S. Improving the diagnostic yield of single-operator cholangioscopy-guided biopsy of indeterminate biliary strictures: ROSE to the rescue? (with video). *Gastrointest Endosc.* 2016 Mar 16. pii: S0016-5107(16)01051-8.
59. Sanaka MR, Jegadeesan R, Thota PN, Navaneethan U, Lopez R, Murthy SC, Raja S. Two-Person Technique of Peroral Endoscopic Myotomy for Achalasia with an Advanced Endoscopist and a Thoracic Surgeon: Initial Experience. *Can J Gastroenterol Hepatol.* 2016;2016:2656101.
60. Bang JY, Hasan MK, Sutton B, Holt BA, **Navaneethan U**, Hawes R, Varadarajulu S. Intra-procedural increase in heart rate during EUS-guided celiac plexus neurolysis: Clinically relevant or just a physiological change? *Gastrointest Endosc.* 2016 Apr 2. pii: S0016-5107(16)30012-8. doi: 10.1016/j.gie.2016.03.1496. [Epub ahead of print]
61. Tharian B, George N, **Navaneethan U**. Endoscopy in the Diagnosis and Management of Complications of Inflammatory Bowel Disease. *Inflamm Bowel Dis.* 2015 Dec 29. [Epub ahead of print]
62. **Navaneethan U**. Gut Inflammation in Primary Sclerosing Cholangitis and Autoimmune Sclerosing Cholangitis-Contrasting Pattern of Liver-gut Cross Talk. *EBioMedicine.* 2015 Sep 30;2(10):1310-1
63. **Navaneethan U**, Vargo JJ, Menon KV, Sanaka MR, Tsai CJ. Impact of balloon-assisted enteroscopy on the diagnosis and management of suspected and established small-bowel Crohn's disease. *Endosc Int Open.* 2014 Dec;2(4):E201-6.
64. **Navaneethan U**, Hasan MK, Lourdasamy V, Njei B, Varadarajulu S, Hawes RH. Single-operator cholangioscopy and targeted biopsies in the diagnosis of indeterminate biliary strictures: a systematic review. *Gastrointest Endosc.* 2015 Jun 9. pii: S0016-5107(15)02389-5. doi: 10.1016/j.gie.2015.04.030. [Epub ahead of print]
65. Somani P, Navaneethan U. Role of ERCP in Patients With Idiopathic Recurrent Acute Pancreatitis. *Curr Treat Options Gastroenterol.* 2016 Sep;14(3):327-39.
66. Holt BA, Hawes R, Hasan M, Canipe A, Tharian B, **Navaneethan U**, Varadarajulu S. Biliary drainage: role of EUS guidance. *Gastrointest Endosc.* 2015 Jul 24. pii: S0016-5107(15)02591-2. doi: 10.1016/j.gie.2015.06.019. [Epub ahead of print]

67. **Navaneethan U**, Eubanks S. Approach to patients with esophageal Dysphagia. *Surg Clin North Am*. 2015 Jun;95(3):483-9
68. **Navaneethan U**, Venkatesh PG, Jegadeesan R, Lourdasamy V, Hammel JP, Kiran RP, Shen B. Comparison of outcomes for patients with primary sclerosing cholangitis associated with ulcerative colitis and Crohn's disease. *Gastroenterol Rep (Oxf)*. 2014 Oct 29. pii: gou074. [Epub ahead of print]
69. Frandah W, Siddiqui S, **Navaneethan U**, Chaar A, Hawes RH, Varadarajulu S, Hasan MK. Unusual cause of hemobilia. *Gastrointest Endosc*. 2016 Jul;84(1):182.
70. Arora Z, Wu X, **Navaneethan U**, Shen B. Non-surgical porto-mesenteric vein thrombosis is associated with worse long-term outcomes in inflammatory bowel diseases. *Gastroenterol Rep (Oxf)*. 2015 Apr 28. pii: gov012. [Epub ahead of print]
71. Modha K, **Navaneethan U**. Diagnosis and management of primary sclerosing cholangitis-perspectives from a therapeutic endoscopist. *World J Hepatol*. 2015 Apr 18;7(5):799-805
72. **Navaneethan U**, Rai T, Venkatesh PG, Kiran RP. Primary sclerosing cholangitis and the risk of colon neoplasia in patients with Crohn's colitis. *Gastroenterol Rep (Oxf)*. 2015 Feb 26. pii: gov007. [Epub ahead of print]
73. Asad-Ur-Rahman F, Abbass A, Majeed U, **Navaneethan U**. Melanoma Metastasizing to the Small Intestine: A Case Report Illustrating Symptomatic and Asymptomatic Involvement. *Cureus*. 2016 May 13;8(5):e608
74. Lourdasamy V, Tharian B, **Navaneethan U**. Biomarkers in bile-complementing advanced endoscopic imaging in the diagnosis of indeterminate biliary strictures. *World J Gastrointest Endosc*. 2015 Apr 16;7(4):308-17
75. Kochhar GS, **Navaneethan U**, Hartman J, Mari Parungao J, Lopez R, Gupta R, Kapoor B, Mehta P, Sanaka M. Comparative study of endoscopy vs. transjugular intrahepatic portosystemic shunt in the management of gastric variceal bleeding. *Gastroenterol Rep (Oxf)*. 2015 Feb;3(1):75-82
76. **Navaneethan U**, Parsi MA, Lourdasamy D, Grove D, Sanaka MR, Hammel JP, Vargo JJ, Dweik RA. Volatile Organic Compounds in Urine for Noninvasive Diagnosis of Malignant Biliary Strictures: A Pilot Study. *Dig Dis Sci*. 2015 Feb 24. [Epub ahead of print]
77. Kochhar G, **Navaneethan U**, Parungao JM, Hartman J, Gupta R, Lopez R, McCullough AJ, Kapoor B, Shen B. Impact of transjugular intrahepatic portosystemic shunt on post-colectomy complications in patients with ulcerative colitis and primary sclerosing cholangitis. *Gastroenterol Rep (Oxf)*. 2015 Aug;3(3):228-33.
78. **Navaneethan U**, Venkatesh PG, Jegadeesan R, Lourdasamy V, Hammel JP, Kiran RP, Shen B. Comparison of outcomes for patients with primary sclerosing cholangitis associated with ulcerative colitis and Crohn's disease. *Gastroenterol Rep (Oxf)*. 2014 Oct 29. pii: gou074. [Epub ahead of print]
79. **Navaneethan U**, Gutierrez NG, Venkatesh PG, Jegadeesan R, Zhang R, Jang S, Sanaka MR, Vargo JJ, Parsi MA, Feldstein AE, Stevens T. Lipidomic profiling of bile in distinguishing benign from malignant biliary strictures: a single-blinded pilot study. *Am J Gastroenterol*. 2014 Jun;109(6):895-902. doi: 10.1038/ajg.2014.60.
80. **Navaneethan U**, Jegadeesan R, Nayak S, Lourdasamy V, Sanaka MR, Vargo JJ, Parsi MA. ERCP-related adverse events in patients with primary sclerosing cholangitis. *Gastrointest Endosc*. 2014 Jul 30. pii: S0016-5107(14)01878-1. doi: 10.1016/j.gie.2014.06.030. [Epub ahead of print]
81. Kochhar G, **Navaneethan U**, Parungao JM, Hartman J, Gupta R, Lopez R, McCullough AJ, Kapoor B, Shen B. Impact of transjugular intrahepatic portosystemic shunt on post-colectomy complications in patients with ulcerative colitis and primary sclerosing cholangitis. *Gastroenterol Rep (Oxf)*. 2014 Dec 16. pii: gou085. [Epub ahead of print]

82. **Navaneethan U**, Lourdasamy V, Duvuru S, Lourdasamy D, Mehta D, Raja S, Murthy S, Sanaka MR. Timing of esophageal stent placement and outcomes in patients with esophageal perforation: a single-center experience. *Surg Endosc.* 2014 Jul 18. [Epub ahead of print]
83. **Navaneethan U**, Parsi MA, Gutierrez NG, Bhatt A, Venkatesh PG, Lourdasamy D, Grove D, Hammel JP, Jang S, Sanaka MR, Stevens T, Vargo JJ, Dweik RA. Volatile organic compounds in bile can diagnose malignant biliary strictures in the setting of pancreatic cancer: a preliminary observation. *Gastrointest Endosc.* 2014 Jun 11. pii: S0016-5107(14)01351-0. doi: 10.1016/j.gie.2014.04.016. [Epub ahead of print]
84. **Navaneethan U**, Njei B, Venkatesh PG, Vargo JJ, Parsi MA. FISH for diagnosis of cholangiocarcinoma in primary sclerosing cholangitis: a systematic review and meta-analysis. *Gastrointest Endosc.* 2014 Jun;79(6):943-950.e3. doi: 10.1016/j.gie.2013.11.001.
85. **Navaneethan U**, Duvuru S, Jegadeesan R, Venkatesh PG, Gutierrez NG, Hammel J, Kiran RP, Sanaka MR. Factors associated with 30-day readmission and long-term efficacy of enteral stent placement for malignancy. *Surg Endosc.* 2013 Nov 14. [Epub ahead of print]
86. Trikudanathan G, **Navaneethan U**, Njei B, Vargo JJ, Parsi MA. Diagnostic yield of bile duct brushings for cholangiocarcinoma in primary sclerosing cholangitis: a systematic review and meta-analysis. *Gastrointest Endosc.* 2013 Oct 17. doi:pii: S0016-5107(13)02400-0. 10.1016/j.gie.2013.09.015. [Epub ahead of print]
87. **Navaneethan U**, Lourdasamy D, Mehta D, Lourdasamy V, Venkatesh PG, Sanaka MR. Endoscopic resection of large sporadic non-ampullary duodenal polyps: efficacy and long-term recurrence. *Surg Endosc.* 2014 Sep;28(9):2616-22. doi: 10.1007/s00464-014-3512-z.
88. **Navaneethan U**, Konjeti R, Venkatesh PG, Sanaka MR, Parsi MA. Early precut sphincterotomy and the risk of endoscopic retrograde cholangiopancreatography related complications: An updated meta-analysis. *World J Gastrointest Endosc.* 2014 May 16;6(5):200-8. doi: 10.4253/wjge.v6.i5.200.
89. **Navaneethan U**, Njei B, Venkatesh PG, Sanaka MR. Timing of colonoscopy and outcomes in patients with lower GI bleeding: a nationwide population-based study. *Gastrointest Endosc.* 2013 Sep 20. doi:pii: S0016-5107(13)02245-1. 10.1016/j.gie.2013.08.001. [Epub ahead of print]
90. **Navaneethan U**, Gutierrez NG, Jegadeesan R, Venkatesh PG, Butt M, Sanaka MR, Vargo JJ, Parsi MA. Delay in performing ERCP and adverse events increase the 30-day readmission risk in patients with acute cholangitis. *Gastrointest Endosc.* 2013 Mar 22. doi:pii: S0016-5107(13)00107-7. 10.1016/j.gie.2013.02.003. [Epub ahead of print]
91. Modha K, **Navaneethan U**. Advanced therapeutic endoscopist and inflammatory bowel disease: dawn of a new role. *World J Gastroenterol.* 2014 Apr 7;20(13):3485-94
92. **Navaneethan U**. Hepatobiliary manifestations of ulcerative colitis: an example of gut-liver crosstalk. *Gastroenterol Rep (Oxf).* 2014 Jun 20. pii: gou036. [Epub ahead of print]
93. **Navaneethan U**, Jegadeesan R, Gutierrez NG, Venkatesh PG, Hammel JP, Shen B, Kiran RP. Progression of low-grade dysplasia to advanced neoplasia based on the location and morphology of dysplasia in ulcerative colitis patients with extensive colitis under colonoscopic surveillance. *J Crohns Colitis.* 2013 Jul 31. doi:pii: S1873-9946(13)00210-9. 10.1016/j.crohns.2013.06.006. [Epub ahead of print]
94. **Navaneethan U**, Gutierrez NG, Jegadeesan R, Venkatesh PG, Poptic E, Liu X, Sanaka MR, Jang S, Vargo JJ, Parsi MA. Vascular Endothelial Growth Factor Levels in Bile Distinguishes Pancreatic Cancer from Other Etiologies of Biliary Stricture: A Pilot Study. *Dig Dis Sci.* 2013 Jul 5. [Epub ahead of print]
95. Nepal S, **Navaneethan U**, Bennett AE, Shen B. De novo inflammatory bowel disease and its mimics after organ transplantation. *Inflamm Bowel Dis.* 2013 Jun;19(7):1518-27

96. **Navaneethan U**, Gutierrez NG, Jegadeesan R, Venkatesh PG, Butt M, Sanaka MR, Vargo JJ, Parsi MA. Delay in performing ERCP and adverse events increase the 30-day readmission risk in patients with acute cholangitis. *Gastrointest Endosc.* 2013 Mar 22. doi:pii: S0016-5107(13)00107-7. 10.1016/j.gie.2013.02.003. [Epub ahead of print]
97. **Navaneethan U**, Mehta PP, Sanaka MR. Colonoscopies By Nurse Practitioners-Too Premature To Support Their Role. *Clin Gastroenterol Hepatol.* 2013 Mar 21. doi:pii: S1542-3565(13)00391-1. 10.1016/j.cgh.2013.03.009. [Epub ahead of print]
98. **Navaneethan U**, Kochhar G, Venkatesh PG, Bennett AE, Rizk M, Shen B, Kiran RP. Random biopsies during surveillance colonoscopy increase dysplasia detection in patients with primary sclerosing cholangitis and ulcerative colitis. *J Crohns Colitis.* 2013 Mar 19. doi:pii: S1873-9946(13)00074-3. 10.1016/j.crohns.2013.02.009. [Epub ahead of print]
99. **Navaneethan U**, Lashner BA. Effects of Immunosuppression and Liver Transplantation on Inflammatory Bowel Disease in Patients With Primary Sclerosing Cholangitis. *Clin Gastroenterol Hepatol.* 2013 Jan 30. doi:pii: S1542-3565(13)00128-6. 10.1016/j.cgh.2013.01.020. [Epub ahead of print]
100. Venkatesh PG, Jegadeesan R, Gutierrez NG, Sanaka MR, **Navaneethan U**. Natural history of low grade dysplasia in patients with primary sclerosing cholangitis and ulcerative colitis. *J Crohns Colitis.* 2013 Feb 20. doi:pii: S1873-9946(13)00066-4. 10.1016/j.crohns.2013.02.002. [Epub ahead of print]
101. **Navaneethan U**, Jegadeesan R, Gutierrez NG, Venkatesh PG, Arrossi AV, Bennett AE, Rai T, Remzi FH, Shen B, Kiran RP. Backwash Ileitis and the Risk of Colon Neoplasia in Ulcerative Colitis Patients Undergoing Restorative Proctocolectomy. *Dig Dis Sci.* 2013 Feb 1. [Epub ahead of print]
102. Parasa S, **Navaneethan U**, Sridhar AR, Venkatesh PG, Olden K. End-stage renal disease is associated with worse outcomes in hospitalized patients with peptic ulcer bleeding. *Gastrointest Endosc.* 2013 Jan 25. doi:pii: S0016-5107(12)02912-4. 10.1016/j.gie.2012.11.014. [Epub ahead of print]
103. Sanaka MR, **Navaneethan U**, Upchurch BR, Lopez R, Vannoy S, Dodig M, Santisi JM, Vargo JJ. Diagnostic and therapeutic yield is not influenced by the timing of small-bowel enteroscopy: morning versus afternoon. *Gastrointest Endosc.* 2013 Jan;77(1):62-70.
104. Trikudanathan G, **Navaneethan U**, Parsi MA. Endoscopic management of difficult common bile duct stones. *World J Gastroenterol.* 2013 Jan 14;19(2):165-73
105. **Navaneethan U**, Lashner BA. The Enigmatic Relationship Between Primary Sclerosing Cholangitis and Inflammatory Bowel Disease Problems in the Colon From Medications to Protect the New Liver. *Clin Gastroenterol Hepatol.* 2013 Jan 30. doi:pii: S1542-3565(13)00128-6. 10.1016/j.cgh.2013.01.020. [Epub ahead of print]
106. **Navaneethan U**, Venkatesh PG, Mukewar S, Lashner BA, Remzi FH, McCullough AJ, Kiran RP, Shen B, Fung JJ. Progressive Primary Sclerosing Cholangitis Requiring Liver Transplantation Is Associated With Reduced Need for Colectomy in Patients With Ulcerative Colitis. *Clin Gastroenterol Hepatol.* 2012 May; 10(5):540-6.
107. **Navaneethan U**, Venkatesh PG, Kiran RP. Immunoglobulin E Level and Its Significance in Patients with Primary Sclerosing Cholangitis. *Clin Gastroenterol Hepatol.* 2012 May;10(5):563;
108. **Navaneethan U**, Kochhar G, Venkatesh PG, Lewis B, Lashner BA, Remzi FH, Shen B, Kiran RP. Duration and severity of primary sclerosing cholangitis is not associated with risk of neoplastic changes in the colon in patients with ulcerative colitis. *Gastrointest Endosc.* 2012 May;75(5):1045-1054.e1
109. **Navaneethan U**, Venkatesh PG, Lashner BA, Remzi FH, Shen B, Kiran RP. Elevated serum IgG4 is associated with backwash ileitis and reduced colectomy free survival in patients with

- primary sclerosing cholangitis and ulcerative colitis. *J Crohns Colitis*. 2012 May 1. [Epub ahead of print]
110. **Navaneethan U**, Venkatesh PG, Lashner BA, Shen B, Kiran RP. The Impact of ulcerative colitis on the long-term outcome of patients with primary sclerosing cholangitis. *Aliment Pharmacol Ther*. 2012 Mar 19. doi: 10.1111/j.1365-2036.2012.05063.x.
 111. **Navaneethan U**, Choudhary M, Venkatesh PG, Lashner BA, Remzi FH, Shen B, Kiran RP. The effects of liver transplantation on the clinical course of colitis in ulcerative colitis patients with primary sclerosing cholangitis. *Aliment Pharmacol Ther*. 2012 Mar 19. doi: 10.1111/j.1365-2036.2012.05067.x.
 112. **Navaneethan U**, Kochhar G, Phull H, Venkatesh PG, Lian L, Hammel J, Remzi FH, Kiran RP, Shen B. Severe disease on endoscopy and steroid use increase the risk of perforation during colonoscopy in hospitalized inflammatory bowel disease patients. *J Crohns Colitis*. 2012 May;6(4):470-5
 113. **Navaneethan U**, Venkatesh PG, Kiran RP. Letter: ulcerative colitis in patients transplanted for primary sclerosing cholangitis - authors' reply. *Aliment Pharmacol Ther*. 2012 Aug; 36(3):297. doi: 10.1111/j.1365-2036.2012.05178.x
 114. **Navaneethan U**, G K Venkatesh P, Lashner BA, Lopez R, Kiran RP, Shen B. Severity of primary sclerosing cholangitis and its impact on the clinical outcome of Crohn's disease. *J Crohns Colitis*. 2012 Jul;6(6):674-80
 115. **Navaneethan U**, Venkatesh PG, Lashner BA, Remzi FH, Shen B, Kiran RP. Temporal trends in colon neoplasms in patients with primary sclerosing cholangitis and ulcerative colitis. *J Crohns Colitis*. 2012 Feb 8. [Epub ahead of print]
 116. Trikudanathan G, Venkatesh PG, **Navaneethan U**. Diagnosis and Therapeutic Management of Extra-Intestinal Manifestations of Inflammatory Bowel Disease. *Drugs*. 2012 Nov 27. doi: 10.2165/11638120-000000000-00000. [Epub ahead of print]
 117. **Navaneethan U**, Venkatesh PG, Downs-Kelly E, Shen B. *Isospora belli* superinfection in a patient with eosinophilic gastroenteritis-A diagnostic challenge. *J Crohns Colitis* 2012 Mar;6(2):236-9.
 118. **Navaneethan U**, Benette AE, Venkatesh PG, Hammel J, Remzi FH, Kiran RP, McCullough AJ, Shen B. Impact of budesonide on liver function tests and gut inflammation in patients with primary sclerosing cholangitis and ileal pouch anal anastomosis. *J Crohns Colitis*. 2012 Jun;6(5):536-42
 119. **Navaneethan U**, Parasa S, Venkatesh PG, Ganapathi TT, Kiran RP, Shen B. Impact of inflammatory bowel disease on post-cholecystectomy complications and hospitalization costs: A Nationwide Inpatient Sample study. *J Crohns Colitis*. 2012 Sep 5. [Epub ahead of print]
 120. **Navaneethan U**, Mukewar S, Venkatesh PG, Lopez R, Shen B. Clostridium difficile infection is associated with worse long term outcome in patients with ulcerative colitis. *J Crohns Colitis*. 2012 Apr; 6(3):330-6. Epub 2011 Oct 22
 121. Sanaka MR, **Navaneethan U**, Kosuru B, Yerneni H, Lopez R, Vargo JJ. Antegrade is more effective than retrograde enteroscopy for evaluation and management of suspected small-bowel disease. *Clin Gastroenterol Hepatol*. 2012 Aug;10(8):910-6.
 122. Venkatesh PG, **Navaneethan U**, Shen B, McCullough AJ. Increased Serum Levels of Carbohydrate Antigen 19-9 and Outcomes in Primary Sclerosing Cholangitis Patients Without Cholangiocarcinoma. *Dig Dis Sci*. 2012 Sep 25. [Epub ahead of print]
 123. Obusez EC, Lian L, Shao Z, **Navaneethan U**, O'Shea R, Kiran RP, Shen B. Impact of ileal pouch-anal anastomosis on the surgical outcome of orthotopic liver transplantation for primary sclerosing cholangitis. *J Crohns Colitis*. 2012 Jul 10. [Epub ahead of print]

124. Vadlamudi NB, **Navaneethan U**, Thame KA, Kelly DR, Dimmitt RA, Harris WT. Crohn's disease with pulmonary manifestations in children: 2 case reports and review of the literature. *J Crohns Colitis*. 2012 Jun 13. [Epub ahead of print]
125. Trikudanathan G, **Navaneethan U**, Vege SS. Current controversies in fluid resuscitation in acute pancreatitis: a systematic review. *Pancreas*. 2012 Aug;41(6):827-34
126. Trikudanathan G, **Navaneethan U**, Vege SS. Modern treatment of patients with chronic pancreatitis. *Gastroenterol Clin North Am*. 2012 Mar;41(1):63-76
127. Tang LY, Cai H, **Navaneethan U**, Boone JH, Rhodes SJ, Moore L, Rho H, de La Motte C, Queener E, Shen B. Utility of fecal and serum anti-Saccharomyces cerevisiae antibodies in the diagnosis of Crohn's disease-like condition of the pouch. *Int J Colorectal Dis*. 2012 Mar 20. [Epub ahead of print]
128. **Navaneethan U**, Bennett AE, Venkatesh PG, Shen B. IgG4 associated ampullitis and cholangiopathy in Crohn's disease. *J Crohns Colitis* Oct; 5(5):451-6.
129. **Navaneethan U**, Shen L, Venkatesh PG, Lian L, Hammel J, Remzi FH, Kiran RP. Influence of ileal pouch anastomosis on bone loss in inflammatory bowel disease patients. *J Crohns Colitis* Oct;5(5):415-22
130. **Navaneethan U**, Choure AG, Venkatesh PG, Lian L, Goldblum JR, Hammel J, Remzi FH, Kiran RP, Shen B. The presence of concomitant inflammatory bowel disease is associated with increased risk of post-cholecystectomy complications. *Inflamm Bowel Dis*. 2011 Nov 8. doi: 10.1002/ibd.21917. [Epub ahead of print]
131. **Navaneethan U**, Bennett AE, Venkatesh PG, Hammel JP, Remzi FH, Kiran RP, Shen B. Tissue infiltration of IgG4-positive cells in symptomatic patients with IPAA. *J Crohns Colitis*. 2011 Dec;5(6):570-6
132. Venkatesh PG, **Navaneethan U**, Shen B. Hepatobiliary disorders and complications of IBD. *Journal of Digestive Diseases* 2011 Aug;12(4):245-56
133. Shen B, Bennett AE, **Navaneethan U**, et al. Primary sclerosing cholangitis is associated with endoscopic and histologic inflammation of the distal afferent limb in patients with ileal pouch anal anastomosis. *Inflamm Bowel Dis*. 2011 Sep;17(9):1890-900
134. **Navaneethan U**, Venkatesh PG, Al Mohajer M, Gelrud A. Successful diagnosis and management of biliary cast syndrome in a liver transplant patient using single operator cholangioscopy. *JOP*. 2011 Sep 9;12(5):461-3.
135. **Navaneethan U**, Shen B. Pros and cons of medical management of ulcerative colitis. *Clin Colon Rectal Surg*. 2010 Dec;23(4):227-38.
136. **Navaneethan U**, Parasa S, Venkatesh PG, Shen B. Prevalence and risk factors for colonic perforation during colonoscopy in hospitalized end-stage renal disease patients on hemodialysis. *Int J Colorectal Dis*. 2011 Dec 30. [Epub ahead of print]
137. **Navaneethan U**, Parasa S, Venkatesh PG, Shen B. Prevalence and risk factors for colonic perforation during colonoscopy in hospitalized inflammatory bowel disease patients. *J Crohns Colitis*. 2011 Jun;5(3):189-95
138. Venkatesh PG, **Navaneethan U**, Vege SS. Intrapapillary mucinous neoplasm and acute pancreatitis. *J Clin Gastroenterol*. 2011 Oct; 45(9):755-8.
139. Yanai H, Nguyen GC, Yun L, Leibold O, **Navaneethan U**, Stone CD, Ghazi L, Moayyedi P, Brooks J, Bernstein CN, Ben-Horin S. Practice of gastroenterologists in treating flaring inflammatory bowel disease patients with clostridium difficile: antibiotics alone or combined antibiotics/immunomodulators? *Inflamm Bowel Dis*. 2011 Jul;17(7):1540-6
140. Sridhar AR, Parasa S, **Navaneethan U**, Crowell MD, Olden K. Comprehensive study of cardiovascular morbidity in hospitalized inflammatory bowel disease patients. *J Crohns Colitis*. 2011 Aug;5(4):287-94

141. **Navaneethan U**, Venkatesh PG, Wang J. Cytomegalovirus ileitis in a patient after liver transplantation-differentiating from de novo IBD. *J Crohns Colitis*. 2011 Aug;5(4):354-9.
142. **Navaneethan U**, Venkatesh PG, Lian L, Remzi FH, Kiran RP, Shen B. Prevalence and clinical implications of anti-microsomal antibody in patients with ileal pouch anal anastomosis. *J Gastrointest Surg*. 2011 Sep; 15(9):1577-82.
143. **Navaneethan U**, Venkatesh PG, Kapoor S, Lian L, Remzi FH, Kiran RP, Shen B. Elevated serum IgG4 is associated with chronic antibiotic refractory pouchitis-A prospective study. *J Gastrointest Surg*. 2011 Sep; 15(9):1556-61.
144. Trikudanathan G, **Navaneethan U**, Vege SS. Intra-abdominal fungal infections complicating acute pancreatitis: a review. *Am J Gastroenterol*. 2011 Jul;106(7):1188-92
145. **Navaneethan U**, Schauer D, Giannella R. Awareness about clostridium difficile infection among internal medicine residents in the United States. *Minerva Gastroenterol Dietol*. 2011 Sep; 57(3):231-40.
146. **Navaneethan U**, Shen B. Hepatopancreatobiliary manifestations and complications associated with inflammatory bowel disease. *Inflamm Bowel Dis*. 2010 Sep;16(9):1598-619.
147. Trikudanathan G, **Navaneethan U**. Association of pancreatitis with inflammatory bowel disease. *J Clin Gastroenterol*. 2011 Jan;45(1):83.
148. Shen B, Bennett AE, **Navaneethan U**. IgG4-associated Pouchitis. *Inflamm Bowel Dis*. 2011 May;17(5):1247-8
149. **Navaneethan U**, Giannella RA. Infectious colitis. *Curr Opin Gastroenterol*. 2011 Jan;27(1):66-71.
150. **Navaneethan U**, Shen B. Diagnosis and management of pouchitis and ileoanal pouch dysfunction. *Curr Gastroenterol Rep*. 2010 Dec;12(6):485-94.
151. **Navaneethan U**, Venkatesh PG, Shen B. Clostridium difficile infection and inflammatory bowel disease: understanding the evolving relationship. *World J Gastroenterol*. 2010 Oct 21;16(39):4892-904.
152. **Navaneethan U**, Venkatesh PG. Idiopathic hyperammonemia in a patient with total pancreatectomy and islet cell transplantation. *JOP*. 2010 Nov 9; 11(6):620-4.
153. Kariv R, **Navaneethan U**, Venkatesh PG, Lopez R, Shen B. Impact of Clostridium difficile infection in patients with ulcerative colitis. *J Crohns Colitis*. 2011 Feb;5(1):34-40
154. Venkatesh PG, **Navaneethan U**. Mimickers of intestinal tuberculosis: could this be Crohn's disease? An unsolved enigma. *Saudi J Gastroenterol*. 2011 Mar-Apr;17(2):95-6.
155. **Navaneethan U**, Jayanthi V, Mohan P. Pathogenesis of cholangitis in obstructive jaundice-revisited. *Minerva Gastroenterol Dietol*. 2011 Mar;57(1):97-104
156. **Navaneethan U**, Lancaster E, Venkatesh PG, Wang J, Neff GW. Herpes simplex virus hepatitis - it's high time we consider empiric treatment. *J Gastrointest Liver Dis*. 2011 Mar;20(1):93-6.
157. Cai X, Liu Y, Zhou X, **Navaneethan U**, Shen B, Guo B. An LC-ESI-MS method for the quantitative analysis of bile acids composition in fecal materials. *Biomed Chromatogr*. 2011 Apr 5. doi: 10.1002/bmc.1633. [Epub ahead of print]
158. Venkatesh PG, **Navaneethan U**. Azathioprine induced pancreatitis in a patient with co-existing autoimmune pancreatitis and hepatitis. *JOP*. 2011 May 6; 12(3):250-4.
159. Tsuang W, **Navaneethan U**, Ruiz L, Palascak J, Gelrud A. Hypertriglyceridemic Pancreatitis: Presentation and Management. *Am J Gastroenterol*. 2009 Apr; 104(4):984-91.
160. **Navaneethan U**, Remzi FH, Nutter B, Fazio VW, Shen B. Risk factors for abnormal liver function tests in patients with ileal pouch-anal anastomosis for underlying inflammatory bowel disease. *Am J Gastroenterol*. 2009 Oct;104(10):2467-75.

161. **Navaneethan U**, Cherian JV, Prabhu R, Venkataraman J. Distinguishing tuberculosis and Crohn's disease in developing countries: how certain can you be of the diagnosis? *Saudi J Gastroenterol.* 2009 Apr;15(2):142-4.
162. **Navaneethan U**, Shen B. Laboratory tests for patients with ileal pouch-anal anastomosis: clinical utility in predicting, diagnosing, and monitoring pouch disorders. *Am J Gastroenterol.* 2009 Oct;104(10):2606-15.
163. **Navaneethan U**, Shen B. Secondary pouchitis: those with identifiable etiopathogenetic or triggering factors. *Am J Gastroenterol.* 2010 Jan;105(1):51-64.
164. **Navaneethan U**. Infections in flares of inflammatory bowel disease. *Am J Gastroenterol.* 2009 Oct;104(10):2634-5
165. **Navaneethan U**, Shen B. Pros and cons of antibiotic therapy for pouchitis. *Expert Rev Gastroenterol Hepatol.* 2009 Oct;3(5):547-59.
166. **Navaneethan U**, Vege SS, Chari ST, Baron TH. Minimally invasive techniques in pancreatic necrosis. *Pancreas.* 2009 Nov; 38(8):867-75
167. **Navaneethan U**. Seroprevalence of hepatitis E infection in pregnancy - more questions than answers. *Indian J Med Res.* 2009 Dec;130(6):677-9.

BOOK CHAPTERS

1. **Navaneethan U**, Giannella RA. Definition, Epidemiology, pathophysiology, Clinical Classification and differential diagnosis In: Stefano Guandalini, eds. *The Diarrhea*. 1st ed. Springer; 2010.
2. **Navaneethan U**, Shen B. Pouchitis. In: Eric Esrailian eds, *Gut Instincts: A Clinician's Handbook of Digestive and Liver Diseases*. 1st ed. SLACK Inc; 2012
3. **Navaneethan U**, Shen B. Pouchitis and stoma complications. In: Miguel Rigueiro. 1st ed. SLACK Inc; 2012
4. **Navaneethan U**, Shen B. Ulcerative colitis-pouchitis and stoma complications. In: Regueiro M, Swoger J (eds). *Clinical Challenges and Complications of IBD*. SLACK. 2013;345-366.

ABSTRACTS AND/OR PROCEEDINGS (Selected from more than 100)

Oral Presentations:

1. Mohan BP, Khan SR, Chandan S, Ponnada S, Shen B, **Navaneethan U**. Long-term outcomes of patients with endoscopic resection of dysplastic lesions in IBD. *Digestive Disease Week 2020*
2. Bang JY, Sutton B, **Navaneethan U**, Hasan M, Krall K, Hawes R, Varadarajulu S. Proposed approach to endoscopic management of difficult bile duct stones based on results of a randomized trial. *United European Gastroenterology Week 2019*.
3. Bang JY, **Navaneethan U**, Hasan M, Krall K, Hawes R, Varadarajulu S. Optimizing outcomes of single operator cholangioscopy (SOC)-guided biopsies: Results of a randomized trial. *United European Gastroenterology Week 2018*.
4. Bang JY, Kirtane S, Krall K, **Navaneethan U**, Hasan M, Hawes R, Varadarajulu S. Changing trend in EUS-guided tissue acquisition: In memoriam - FNA, birth - FNB. *United European Gastroenterology Week 2018*.
5. Bang JY, **Navaneethan U**, Hasan M, Sutton B, Hawes R, Varadarajulu S. Superiority of EUS-guided RFA over CPN for palliation of pain in pancreatic cancer in a randomized trial. *Digestive Diseases Week 2018*.

6. Bang JY, Arnoletti P, **Navaneethan U**, Hasan M, Hawes R, Varadarajulu S. Minimally Invasive Surgery versus Endoscopy Randomized (MISER) Trial for Necrotizing Pancreatitis. United European Gastroenterology Week 2017.
7. Bang JY, Hebert-Magee S, Hasan M, **Navaneethan U**, Hawes R, Varadarajulu S. Randomized trial comparing the 22 gauge Franseen biopsy and 22 gauge aspiration needles for EUS-guided sampling of solid pancreatic mass lesions. Pancreas Club 2017 and United European Gastroenterology Week 2017.
8. Bang JY, **Navaneethan U**, Hasan M, Hawes R, Varadarajulu S. Lumen-apposing metal stents (LAMS) for pancreatic fluid collection (PFC) drainage: may not be business as usual. ENDO 2017.
9. Bang JY, Hebert-Magee S, Hasan M, **Navaneethan U**, Hawes R, Varadarajulu S. Randomized Trial Comparing the 22 and 25 gauge needles using the Suction-In and No-Suction (SINS) Techniques for EUS-guided FNA of Pancreatic Masses. United European Gastroenterology Week 2016.
10. Bang JY, Hasan M, **Navaneethan U**, Frandah W, Siddique S, Hawes R, Varadarajulu S. Lumen apposing metal stents for drainage of pancreatic fluid collections: When and for whom? *Gastrointest Endosc* 2016; 83:AB176. Digestive Diseases Week 2016.
11. Bang JY, Holt B, **Navaneethan U**, Hasan M, Hawes R, Varadarajulu S. EUS-based step-up treatment approach is associated with better systemic inflammatory response in walled-off necrosis. Pancreas club 2016.
12. Bang JY, Hasan M, **Navaneethan U**, Arnoletti P, Hawes R, Peter S, Christein J, Wilcox CM, Varadarajulu S. Impact of disconnected pancreatic duct syndrome on endoscopic treatment outcomes in pancreatic fluid collections. Pancreas club 2016.
13. Bang JY, Ramesh J, Hasan M, **Navaneethan U**, Hawes RH, Varadarajulu S. EUS is not required for staging newly diagnosed malignant esophageal strictures that preclude the passage of a standard gastroscope: results of a prospective, multicenter study. *Am J Gastroenterol* 2015; 110:S628. American College of Gastroenterology Annual Meeting 2015.
14. **Navaneethan U**, Parsi MA, Lourdasamy D, Grove D, Sanaka MR, Hammel JP, Vargo JJ, Dweik RA. Volatile Organic Compounds in Urine for Noninvasive Diagnosis of Malignant Biliary Strictures: A Pilot Study. American Gastroenterology Association, Digestive Disease Week 2015
15. **Navaneethan U**, Gutierrez NG, Jegadeesan R, Venkatesh PG, Poptic E, Liu X, Sanaka MR, Jang S, Vargo JJ, Parsi MA. Lipidomics of Bile in Differentiating Benign and Malignant Biliary Strictures: A Pilot Study. American Gastroenterology Association, Digestive Disease Week 2014
16. **Navaneethan U**, Gutierrez NG, Jegadeesan R, Venkatesh PG, Poptic E, Liu X, Sanaka MR, Jang S, Vargo JJ, Parsi MA. Volatile Organic Compounds in Bile in the Diagnosis of Cholangiocarcinoma in patients with Primary Sclerosing Cholangitis. American Gastroenterology Association, Digestive Disease Week 2014
17. **Navaneethan U**, Njei B, Sanaka MR. EUS-guided transmural drainage of pancreatic pseudocysts-Multiple plastic stents versus metal stents: A Systematic Review and Meta-analysis. American Gastroenterology Association, Digestive Disease Week 2014
18. **Navaneethan U**, Gutierrez NG, Jegadeesan R, Venkatesh PG, Poptic E, Liu X, Sanaka MR, Jang S, Vargo JJ, Parsi MA. Vascular Endothelial Growth Factor Levels in Bile Distinguishes Pancreatic Cancer from Other Etiologies of Biliary Stricture: A Pilot Study. Presidential Plenary Oral Presentation, American College of Gastroenterology 2013.

19. Venkatesh PG, **Navaneethan U**, Kiran RP, Shen B, McCullough AJ. Elevated levels of CA 19-9 and outcomes in primary sclerosing cholangitis patients without Cholangiocarcinoma. American Gastroenterology Association, Digestive Disease Week 2012
20. **Navaneethan U**, Venkatesh PG, Choudhary M, Shen B, Kiran RP. Elevated immunoglobulin G4 level is associated with reduced colectomy-free survival in patients with primary sclerosing cholangitis and ulcerative colitis. American Gastroenterology Association, Digestive Disease Week 2012
21. **Navaneethan U**, Venkatesh PG, Lashner BA, Shen B, Kiran RP. The Impact of ulcerative colitis on the long-term outcome of patients with primary sclerosing cholangitis. American Gastroenterology Association, Digestive Disease Week 2012
22. **Navaneethan U**, Venkatesh PG, Lashner BA, Remzi FH, Shen B, Kiran RP, Fung JJ. Clinical outcomes of ulcerative colitis and Crohn's disease in patients with primary sclerosing cholangitis. American Gastroenterology Association, Digestive Disease Week 2012
23. **Navaneethan U**, Venkatesh PG, Mukewar S, Lashner BA, McCullough AJ, Remzi FH, Kiran RP, Shen B, Fung JJ. Progressive primary sclerosing cholangitis requiring liver transplantation is associated with reduced need for colectomy in patients with ulcerative colitis. Crohn's and Colitis Foundation of America 2011.
24. **Navaneethan U**, Kochhar G, Venkatesh PG, Lewis B, Lashner BA, Remzi FH, Shen B, Kiran RP. Duration and severity of primary sclerosing cholangitis does not correlate with the risk of neoplastic changes in the colon in patients with ulcerative colitis. Crohn's and Colitis Foundation of America 2011
25. **Navaneethan U**, Mukewar S, Venkatesh PG, Lopez R, Shen B. Clostridium difficile infection is associated with worse long term outcome in patients with ulcerative colitis. Crohn's and Colitis Foundation of America 2011
26. Choure A, **Navaneethan U**, Shao Z, Venkatesh PGK, Manilich E, Kiran RP, Remzi FH, Shen B. The presence of concomitant inflammatory bowel disease is associated with an increased risk for post-operative complication of cholecystectomy. DDW 2011 Chicago, May 2011
27. **Navaneethan U**, Venkatesh PGK, Mukewar S, Hammel JP, Remzi FH, Kiran RP, **Shen B**. The impact of severity of primary sclerosing cholangitis and clinical outcome in patients with ulcerative colitis. Advances in Inflammatory Bowel Disease-Annual CCFA Meeting, Hollywood, FL, December 2011
28. **Navaneethan U**, Kiran RP, Kochhar G, Venkatesh PGK, Remzi FH, and **Shen B**. Relationship of colon neoplasms to duration and severity of disease in patients with primary sclerosing cholangitis and ulcerative colitis. Advances in Inflammatory Bowel Disease-Annual CCFA Meeting, Hollywood, FL, December 2011
29. **Navaneethan U**, Mukewar S, Venkatesh PGK, Lopez R, Shen B. Clostridium difficile infection is associated with worse long term outcome in patients with ulcerative colitis. Advances in Inflammatory Bowel Disease- the Annual CCFA Meeting, Hollywood, FL, December 2011

Poster Presentations:

1. Osterman M, Yarur A, **Navaneethan U**, James A, Lopez C, Rosario M, Lasch K. Characterization of early clinical and pharmacokinetic response profiles of vedolizumab: An interim analysis of Enterpret, a phase 4 clinical study. Crohns and Colitis Congress. 2020.

2. Bang JY, Sutton B, **Navaneethan U**, Hasan M, Krall K, Hawes R, Varadarajulu S. Proposed approach to endoscopic management of difficult bile duct stones based on results of a randomized trial. *United European Gastroenterology Journal* 2019.
3. Bang JY, **Navaneethan U**, Hasan M, Krall K, Hawes R, Varadarajulu S. Optimizing outcomes of single operator cholangioscopy (SOC)-guided biopsies: Results of a randomized trial. *United European Gastroenterology Week 2018 and Digestive Diseases Week 2019*.
4. Bang JY, Kirtane S, Krall K, **Navaneethan U**, Hasan M, Hawes R, Varadarajulu S. Changing trend in EUS-guided tissue acquisition: In memoriam - FNA, birth - FNB. *United European Gastroenterology Week 2018*.
5. Bang JY, **Navaneethan U**, Hasan M, Sutton B, Hawes R, Varadarajulu S. Superiority of EUS-guided RFA over CPN for palliation of pain in pancreatic cancer in a randomized trial. *Digestive Diseases Week 2018*.
6. Bang JY, Arnoletti P, **Navaneethan U**, Hasan M, Hawes R, Varadarajulu S. Minimally Invasive Surgery versus Endoscopy Randomized (MISER) Trial for Necrotizing Pancreatitis. *United European Gastroenterology Week 2017*.
7. Bang JY, **Navaneethan U**, Hasan M, Hawes R, Varadarajulu S. Randomized Trial Comparing the Lumen-apposing Metal Stents (LAMS) and Plastic Stents for EUS-guided Drainage of Walled-off Necrosis (WON). *United European Gastroenterology Week 2017*.
8. Bang JY, **Navaneethan U**, Hasan M, Hawes R, Varadarajulu S. Walled-off Necrosis (WON): Outcomes of an 11 algorithmic approach to necrosectomy. *United European Gastroenterology Week 2017*.
9. Bang JY, **Navaneethan U**, Hasan M, Hawes R, Varadarajulu S. Randomized Trial Comparing the Franseen and Fork-tip needles for EUS-guided Fine Needle Biopsy. *United European Gastroenterology Week 2017*.
10. Bang JY, Hebert-Magee S, Hasan M, **Navaneethan U**, Hawes R, Varadarajulu S. Randomized trial comparing the 22 gauge Franseen biopsy and 22 gauge aspiration needles for EUS-guided sampling of solid pancreatic mass lesions. *Pancreas Club 2017 and United European Gastroenterology Week 2017*.
11. Bang JY, **Navaneethan U**, Hasan M, Hawes R, Varadarajulu S. Lumen-apposing metal stents (LAMS) for pancreatic fluid collection (PFC) drainage: may not be business as usual. *ENDO 2017*.
12. Bang JY, Hebert-Magee S, Hasan M, **Navaneethan U**, Hawes R, Varadarajulu S. Randomized trial comparing the 22 and 25 gauge needles using the Suction-In and No-Suction (SINS) techniques for EUS-guided FNA of pancreatic masses. *United European Gastroenterology Week 2016*.
13. Bang JY, Hasan M, **Navaneethan U**, Frandah W, Siddique S, Hawes R, Varadarajulu S. Lumen apposing metal stents for drainage of pancreatic fluid collections: When and for whom? *Gastrointest Endosc* 216; 83:AB176.
14. Bang JY, Hasan MK, **Navaneethan U**, Hawes R, Varadarajulu S. Endoscopic Treatment of Walled-off Necrosis (WON) in Children: First Report on Clinical Experience and Outcomes. *Gastrointest Endosc* 2016; 83:AB300.
15. Bang JY, **Navaneethan U**, Hasan MK, Hawes R, Varadarajulu S. EUS correlates of disconnected pancreatic duct syndrome. *Gastrointest Endosc* 2016; 83:AB350.
16. Hebert-Magee S, Hasan MK, **Navaneethan U**, Bang JY, Hawes R, Varadarajulu S. Improving the Diagnostic Yield of Single Operator Cholangioscopy (SOC)-Guided Biopsies of Indeterminate Biliary Strictures (IBS): Rapid on-Site Evaluation (ROSE) to the Rescue? *Gastrointest Endosc* 2016; 83:AB134.

17. Bang JY, Holt BA, **Navaneethan U**, Hasan MK, Hawes R, Varadarajulu S. EUS-Based Step-Up Treatment Approach Is Associated with Greater Improvement in Systemic Inflammatory Response in Walled-off Necrosis (WON). *Gastrointest Endosc* 2016; 83:AB519.
18. Bang JY, Ramesh J, Hasan M, **Navaneethan U**, Hawes RH, Varadarajulu S. EUS is not required for staging newly diagnosed malignant esophageal strictures that preclude the passage of a standard gastroscope: results of a prospective, multicenter study. *Am J Gastroenterol* 2015; 110:S628.
19. Bang JY, Hasan M, Sutton B, **Navaneethan U**, Hawes RH, Varadarajulu S. Pain relief in pancreatic cancer: can the outcomes of EUS-guided celiac plexus neurolysis (EUS-CPN) be improved? *Am J Gastroenterol* 2015; 110:S628.
20. Bang JY, Sutton B, Hasan M, **Navaneethan U**, Hawes R, Varadarajulu S. Colon polyp management in the United States health care system: A plea for sanity. *Gastrointestinal Endosc* 2015; 81:AB284.
21. Bang JY, Krall K, Hebert-Magee S, Hasan M, **Navaneethan U**, Hawes R, Varadarajulu S. Needle changes during EUSFNA: An attempt to improve outcomes. *Gastrointestinal Endosc* 2015; 81:AB431
22. **Navaneethan U**, Venkatesh PG, Lashner BA, Sanaka M, Shen B, Kiran RP. Influence of inflammatory bowel disease on the outcome of patients with primary sclerosing cholangitis with and without dominant stricture. American Gastroenterology Association, Digestive Disease Week 2012 (**Poster of Distinction**)
23. **Navaneethan U**, Venkatesh PG, Kapoor S, Lian L, Remzi FH, Kiran RP, Shen B. Elevated serum IgG4 is associated with chronic antibiotic refractory pouchitis-A prospective study. American Gastroenterology Association, Digestive Disease Week 2011
24. **Navaneethan U**, Shen L, Venkatesh PG, Lian L, Hammel J, Remzi FH, Kiran RP. Influence of ileal pouch anastomosis on bone loss in inflammatory bowel disease patients. American Gastroenterology Association, Digestive Disease Week 2011
25. **Navaneethan U**, Venkatesh PG, Kochhar G, Shen B. Severe disease on endoscopy and steroid use increase the risk for bowel perforation during colonoscopy in inflammatory bowel disease patients. American College of Gastroenterology, October 2011
26. **Navaneethan U**, Parasa S, Venkatesh PG, Shen B. The presence of concomitant Crohn's disease is associated with increased risk of post-cholecystectomy complications. American College of Gastroenterology, October 2011
27. **Navaneethan U**, Venkatesh PG, Kochhar G, Shen B. Comparative yield of random and target biopsies in detection of dysplasia in patients with primary sclerosing cholangitis and ulcerative colitis. American College of Gastroenterology, October 2011
28. Rockey, H, **Navaneethan U**, Kiran RP, Shen B. Relative accuracy of different modalities for the diagnosis of pouch-vaginal fistula in inflammatory bowel disease patients after restorative proctocolectomy. *Am J Gastroenterol* 2010;105 Suppl 1:A1191.
29. Choure A, **Navaneethan U**, Shao Z, Venkatesh PGK, Manilich E, Kiran RP, Remzi FH, Shen B. The presence of concomitant inflammatory bowel disease is associated with an increased risk for post-operative complication of cholecystectomy. *Gastroenterology* 2011;140 Suppl 1:S48.
30. **Navaneethan U**, Venkatesh PGK, Kapoor S, Kiran RP, Remzi FH, Shen B. Elevated serum IgG4 is associated with chronic antibiotic-refractory pouchitis- A prospective study. *Gastroenterology* 2011;140 Suppl 1:S431-S432.
31. **Navaneethan U**, Kochkar, G, Venkatesh P, Phull H, Hammel J, Kiran R, Remzi F, Shen B. Random biopsies during colonoscopy in patients with primary cholangitis and ulcerative colitis. Does it impact colinical outcome. *Am J Gastroenterol* 2011;106 Suppl 2:S426.

32. Kochlar G, **Navaneethan U**, Phull H, Venkatesh P, Hammel J, Remzi F, Kiran R, Shen B. Severe disease on endoscopy and steroid use increase the risk for colonic perforation during colonoscopy in inflammatory bowel disease patients. Am J Gastroenterol 2011;106 Suppl 2:S1262.
33. **Navaneethan U**, Parasa S, Venkatesh P, Kochhar G, Shen B. The presence of Crohn's disease is associated with increased risk of post-cholecystectomy complications. Am J Gastroenterol 2011;106 Suppl 2:S1270.
34. **Navaneethan U**, Venkatesh PGK, Mukewar S, Hammel JP, Remzi FH, Kiran RP, Shen B. The impact of severity of primary sclerosing cholangitis and clinical outcome in patients with ulcerative colitis. Inflamm Bowel Dis 2011;17 suppl:S2.
35. **Navaneethan U**, Kochhar G, Venkatesh PGK, Remzi FH, Kiran RP, Shen B. Relationship of colon neoplasms to duration and severity of disease in patients with primary sclerosing cholangitis and ulcerative colitis. Inflamm Bowel Dis 2011;17 suppl:S3.
36. **Navaneethan U**, Mukewar S, Venkatesh PGK, Lopez R, Shen B. Clostridium difficile infection is associated with worse long term outcome in patients with ulcerative colitis. Inflamm Bowel Dis 2011; 17 suppl:S2.
37. **Navaneethan U**, Mukewar S, Venkatesh PGK, Lashner B, Remzi FH, Kiran R, Shen B. Impact of Crohn's disease on the long term outcome of patients with primary sclerosing cholangitis. Gastroenterology 2012;142 Suppl 1:S260-S261.
38. **Navaneethan U**, Choudhary M, Venkatesh PGK, Lashner B, Remzi FH, Kiran R, Shen B. Ulcerative colitis remains quiescent in most patients following liver transplantation in primary sclerosing cholangitis. Gastroenterology 2012;142 Suppl 1:S802-S803.
39. **Navaneethan U**, Choudhary M, Venkatesh PGK, Lashner B, Remzi FH, Kiran R, Shen B. Elevated immunoglobulin G4 is associated with backwash ileitis and reduced colectomy-free survival in patients with primary sclerosing cholangitis and ulcerative colitis. Gastroenterology 2012;142 Suppl 1:S75-S76.
40. **Navaneethan U**, Venkatesh PGK, Kochhar GS, Lashner B, Sanaka MR, Kiran RP, Shen B. Impact of ulcerative colitis on patients with primary sclerosing cholangitis with or without dominant stricture. Gastroenterology 2012;142 Suppl 1:S667.
41. **Navaneethan U**, Venkatesh PGK, Lashner B, Remzi FH, Kiran RP, Shen B, Fung JJ. A historical cohort study comparing the clinical outcome of ulcerative colitis and Crohn's disease in the presence of primary sclerosing cholangitis. Gastroenterology 2012;142 Suppl 1:S40.
42. **Navaneethan U**, Venkatesh PGK, Lashner B, Remzi FH, Kiran RP, Shen B, Fung JJ. Impact of ulcerative colitis on the long term outcome of patients with primary sclerosing cholangitis. Gastroenterology 2012;142 Suppl 1:S8.
43. Jegadeesan R, **Navaneethan U**, Gutierrez N, Rai T, Remzi F, Shen B. Backwash ileitis and the risk of neoplasia in ulcerative colitis patients undergoing restorative proctocolectomy. Am J Gastroenterol 2012;107 Suppl 1:A1710.
44. Rai T, **Navaneethan U**, Dalal D, Lashner B, Shen B. Clinical implications of measuring infliximab levels and human anti-chimeric antibodies in patients with inflammatory bowel disease. Am J Gastroenterol 2012;107 Suppl 1:A1572
45. Singh G, **Navaneethan U**, Parungao J, Hartman J, Gupta R, Lopez R, Shen B, Kapoor B, McCullough A. Impact of transjugular intrahepatic portosystemic shunt on post-colectomy complications in patients with ulcerative colitis and primary sclerosing cholangitis. Am J Gastroenterol 2013;108 Suppl 1; A533
46. Kochhar G, Singh T, **Navaneethan U**, Singh G, Shrestha K, **Shen B**. Upper gastrointestinal tract involvement mediated by IgG4 in patients with ulcerative colitis-A retrospective study. Inflamm Bowel Dis 2013;19 Suppl:S75-S76.

47. Arora Z, Wu X-R, **Navaneethan U**, Shen B. Non-surgical porto-mesenteric vein thrombosis is associated with worse outcomes in inflammatory bowel diseases. *Gastroenterology* 2014;146:S446
48. Jegadeesan R, **Navaneethan U**, Nayak S, Hammel J, Shen B. Impact of concurrent non-IBD immunological diseases on the outcome of primary sclerosing cholangitis. *Gastroenterology* 2015;148:S291.
49. Jegadeesan R, **Navaneethan U**, Lan N, Kochhar G, Shen B. 25-Hydroxy Vitamin D Levels and Bone Mineral Density Before and After Liver Transplantation in Primary Sclerosing Cholangitis. *Inflamm Bowel Dis* 2016; 22 Suppl 1:S38
50. Yanai H, Nguyen GC, Yun L, Lebowitz O, **Navaneethan U**, Stone CD, Ghazi L, Moayyedi P, Brooks J, Bernstein CN, Ben-Horin S. Practice of gastroenterologists in treating flaring inflammatory bowel disease patients with clostridium difficile: antibiotics alone or combined antibiotics/immunomodulators? American Gastroenterology Association, Digestive Disease Week 2010
51. Mahankali Sridhar AR, Parasa S, **Navaneethan U**, Olden KR. Cardiovascular morbidity in Inflammatory bowel disease. American Gastroenterology Association, Digestive Disease Week 2010
52. **Navaneethan U**, Remzi FH, Nutter B, Fazio VW, Shen B. Risk factors for abnormal liver function tests in patients with ileal-anal pouch anastomosis with underlying IBD. American Gastroenterology Association, Digestive Disease Week 2009
53. Otoole T, **Navaneethan U**, Al mohajer M, Ghosh S, Schmulewitz N. Which patients with chronic pancreatitis are unlikely to respond to EUS-guided celiac plexus blockade? American Gastroenterology Association, Digestive diseases week 2009
54. **Navaneethan U**, Palascak J, Mohajer MA, Gelrud A, et al. Oral Cholangioscope in the diagnosis and management of biliary disorders. American Gastroenterology Association, Digestive diseases week 2008
55. **Navaneethan U**, Mohajer MA, Palascak J, Gelrud A. Successful management of Biliary cast syndrome in a liver transplant patient with a single operator cholangioscopy. American College of Gastroenterology, October 2008
56. **Navaneethan U**, Mohajer MA, Gelrud A, et al. Endoscopic necrosectomy in the management of Walled off Pancreatic necrosis. American College of Gastroenterology, October 2008
57. **Navaneethan U**, Mohajer MA, Palascak J, Gelrud A. Endoscopic management of pancreatic pseudocyst-A single center experience. American College of Gastroenterology, October 2008
58. **Navaneethan U**, Mohajer MA, Palascak J, Gelrud A. Single Balloon Enteroscopy in comparison to capsule endoscopy in the diagnosis and management of small bowel diseases. American College of Gastroenterology, October 2008
59. **Navaneethan U**, M. S. Beg, K. Ahmed, R. S. Komrokji, M. M. Safa. Does race impact survival in VA patients with gastric cancer? American Society of GI Clinical Oncology, January 2008.

MAJOR RESEARCH INTERESTS:

Translational Research and Interventions in IBD. Additional interests in clinical trials in IBD.

TEACHING EXPERIENCE:

2010 - 2014	Medical student teaching in clinic and inpatient 2hrs/week (Lerner College of Medicine of Cleveland Clinic, Case Western Reserve University)
2010 -2014	Medical resident teaching in clinic and inpatient 3hrs/week (Cleveland Clinic)
2014 -	Visiting trainees/observers teaching, Advent Health, Orlando
2015 - 2019	Medical student teaching in clinic, 1/2hr/week (University of Central Florida college of medicine)
2015 -	Fellows' teaching 1 hr/week (Colorectal Surgery fellows at Advent Health, Orlando)
2016 -	Invited speaker (ACG, AGA, ASGE, and CCFA)

**Formal Teaching of Peers (NATIONAL):
Report of Regional, National and International Invited Teaching and Presentations**

Years	Title
Jan 2014	Internal Medicine Grand Rounds: "Advances in IBD" Case Western Reserve University/St. Vincent Charity Medical Center, Cleveland, OH
Jan 2014	Internal Medicine Grand Rounds: "Primary Sclerosing Cholangitis" Case Western Reserve University/Hillcrest hospital, Cleveland, OH
Dec 2014	Endoscopic mucosal resection in the upper gastrointestinal tract, Invited Speaker, 1 st Annual HPB Conference, Florida Hospital, Orlando, FL
April 2015	1 st Annual Orlando Clinical Updates in Inflammatory Bowel Disease, Diagnosis of dysplasia/cancer in IBD using chromoendoscopy
May 2015	"Therapeutic endoscopy in IBD". Invited Speaker, Luncheon with Professors session. Digestive Disease Week, Washington, DC
May 2015	Digestive Disease Week 2015 Session Moderator: Pancreas Cyst: Watch, Sample, Ablate and Resect, Washington, DC
Feb 2015	2nd North Meets South Symposium "Endoscopic management of IBD complications". Invited Speaker, Orlando, FL
Oct 2015	Medical therapy for Crohn's disease and ulcerative colitis". Invited Speaker, CCFA Florida Chapter, Orlando, FL

- Dec 2015 ACG Regional Course, “Endoscopic management of Barrett’s esophagus”
Nashville, TN
- Jan 2016 Symposium on Challenges in Clinical Endoscopy, Palm Coast, FL
Regional Faculty
- April 2016 2nd Annual Orlando Clinical Updates in Inflammatory Bowel Disease, Cancer
surveillance in IBD
- May 2016 “Taking the Indeterminate out of the Indeterminate Biliary Stricture”. Invited
Speaker, Clinical Symposium. Digestive Disease Week, San Diego, CA
- May 2016 “Endoscopic management of IBD complications”. Invited Speaker, **Luncheon with
Professors’ session**. Digestive Disease Week, San Diego, CA
- May 2016 “Malignant Biliary Strictures: Can We Do Better? Are We Doing Too Much?”.
Invited Speaker, Topic Forum. Digestive Disease Week, San Diego, CA
- May 2016 “Outcomes in Endoscopy: Where Are We Now”. Invited Speaker, Topic Forum.
Digestive Disease Week, San Diego, CA
- June 2016 “Medical therapy for IBD”. Invited Speaker, Gastroenterology fellows conference,
University of North Carolina, NC
- June 2016 “Medical therapy for IBD”. Invited Speaker, Gastroenterology grand rounds,
Evansville, Indiana
- Oct 2016 “Medical therapy for IBD”. Invited Speaker, **Hershey Medical Center,**
Hershey, PA
- Oct 2016 “Medical therapy for Crohn’s disease and ulcerative colitis”. Invited Speaker, CCFA
Florida Chapter, Orlando, FL
- Jan 2017 Focused update on IBD, St. Petersburg, FL, Colon polyps in UC-How to detect
and treat
- April 2017 3rdrd Annual Orlando Clinical Updates in Inflammatory Bowel Disease, How to
identify and resect dysplastic lesions in IBD patients using chromoendoscopy
- May 2017 “Recognition and endoscopic management of pouch disorders”. Invited Speaker,
Luncheon-with-Professor Session, Digestive Disease Week 2017, Chicago, IL
- Sep 2017 **Texas Society of Gastroenterology (TSGE)-ACG Meeting, Austin, TX.**
Endoscopic recognition and management of dysplasia in Ulcerative colitis
- Sep 2017 **Chennai International Inflammatory Bowel Disease Meeting, India,** Is there
an optimal approach to prevention of post-operative Crohn’s disease

Dec 2017	Florida Chapter ACP Annual Scientific Meeting , West Palm Beach, FL Invited Speaker-Advances in gastroenterology: IBD
April 2018	4th Annual Orlando Clinical Updates in Inflammatory Bowel Disease, Chromoendoscopy in cancer surveillance in IBD-How to do it and incorporating in clinical practice
Oct 2018	Orlando Colorectal Congress: Invited Speaker; Medical management of IBD for the Surgeons
March 2019	ACG-FGS Meeting, Naples, FL, Course Co-Director, Management of Strictures AND Endoscopic management of dysplasia in IBD
March 2019	Tampa Gut Club- Recent Advances in Management of IBD
March 2019	Update on Techniques and Tips in GI endoscopy, West Palm Beach, FL, Updates On medical management of IBD
April 2019	5th Annual Orlando Clinical Updates in Inflammatory Bowel Disease, Incorporating endoscopy in the optimal management of IBD
Oct 2019	Orlando Colorectal Congress: Invited Speaker; Medical management of IBD for the Surgeons and Endoscopic diagnosis and management of dysplasia in IBD.
Feb 2020	Update on Advances in Endoscopic Interventions, Palm Coast, FL, Updates On medical management of IBD AND Colon polyps in IBD-How to detect and treat
Oct 2020	Innovations in IBD Endoscopy-Role of stents in the management of IBD strictures, Orlando, FL
Mar 2021	International Conference on updates in Advanced endoscopy and IBD. Planetary Health Academia, Dhaka, Bangladesh
July 2021	Tampa Gut Club- Management of IBD with anti-IL-12/23 inhibitors

Formal Teaching of Medical Students, Residents, Clinical Fellows and Research Fellows (LOCAL):

Years	Title	Location
2019	Advances in IBD treatment Colo-rectal surgery Fellows	Florida Hospital One hour weekly lecture
2020	Advances in IBD treatment Colo-rectal surgery Fellows	Advent Health One hour lecture
2016	Advances in IBD treatment Medical residency program	Florida Hospital Medical grand rounds

MENTORSHIP TO STUDENTS/TRAINEES***College Students***

Hillary Rockey, senior, Colby College, Maine 2010 – 2012

Medical Students from UCF College of Medicine

Heena Ahmed, BS, M2 medical student 2015-2016
University of Central Florida College of Medicine
Current: Anesthesia residency,
Baylor College of Medicine, Houston, TX

Reem Abdella, BS, M2 medical student 2015-2016
University of Central Florida College of Medicine
Current: Internal Medicine residency,
Orlando Health, Orlando, FL

Chad Spencer, BA, M4 medical student 2017-2018
University of Central Florida College of Medicine
Current: Gastroenterology Fellowship,
University of South Alabama College of Medicine, Mobile, AL

Faith Villanueva, BA, M4 medical student 2016-2017
University of Central Florida College of Medicine
Current: Gastroenterology Fellowship,
University of Florida College of Medicine, Gainesville, FL

Residents and Fellows

Anuja Choure, MD, 3rd year medical resident, 2010 - 2011
The Cleveland Clinic Foundation

Saurabh Mukewar, MD. 1st year medical resident 2010 - 2013
The Cleveland Clinic Foundation
Current: GI fellow at Mayo Clinic, Rochester, MN

Tarun Rai, MD, Medical Resident 2012 - 2014
The Cleveland Clinic Foundation
Current: GI fellow, University of Kansas Medical Center

Sansrita Nepal, MD, Medical Resident 2011 - 2013
The Cleveland Clinic Foundation

Zubin Arora, MD, Medical Resident 2012 - 2013
The Cleveland Clinic Foundation

Ramprasad Jegadeesan, MD, Medical Resident The Cleveland Clinic Foundation	2013-2016
Vennisvasanth Lourdusamy, MD, Research Fellow The Cleveland Clinic Foundation Current: GI fellow, Bronx Lebanon hospital	2013-2020
Rajesh Konijeti, MD, The Cleveland Clinic Foundation	2014-2016
Gursimran Kochhar, MD, GI/Nutrition Fellow Department of Gastroenterology/Hepatology The Cleveland Clinic Foundation	2012-2014
Saeed Ali, MD Resident, Internal Medicine, Advent Health, Orlando	2016-2018
Asad Ur Rahman MD Resident, Internal Medicine, Advent Health, Orlando	2015-2017
Benjamin Tharian (F'15), Advanced Endoscopy Fellow Current: Gastroenterology faculty-University of Arkansas	2014-2015
Yunlu Feng, MD Gastroenterologist, Peking Medical College, China	2016-2107
Guru Trikudanathan, MD Gastroenterologist, University of Minnesota	2012-2019
Basile Njei, MD Gastroenterology Fellow, Yale New Haven hospital	2014-2020
Babu P Mohan, MD Gastroenterology Fellow, University of Utah	2014-2020