

CURRICULUM VITAE FOR ACADEMIC PROMOTION  
Stanford University School of Medicine

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John O'Brien Clarke, M.D.

October 5, 2016

**DEMOGRAPHIC AND PERSONAL INFORMATION**

**Current Appointments**

2016-Present Director, Esophageal Program, Stanford University School of Medicine  
2016-Present Clinical Associate Professor of Medicine, Division of Gastroenterology & Hepatology, Stanford University

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**Education and Training**

*Undergraduate*

1991-1995 B.A., History, Departmental honors, *Magna cum laude, Phi Beta Kappa*, Brown University, Providence, RI

*Doctoral*

1995-1999 M.D., *Alpha Omega Alpha*, College of Physicians & Surgeons at Columbia University, New York, NY

*Postdoctoral*

1999-2002 Residency, Internal Medicine, Johns Hopkins Hospital, Baltimore, MD  
2004-2007 Fellowship, Gastroenterology & Hepatology, Johns Hopkins Hospital, Baltimore, MD  
2006 (Aug-Oct) Fellowship, Gastrointestinal Motility, Northwestern University Feinberg School of Medicine, Chicago, IL

**Professional Experience**

2002-2004 Hospitalist, Greater Baltimore Medical Center, Baltimore, MD  
2007-2014 Assistant Professor of Medicine, Division of Gastroenterology & Hepatology, Johns Hopkins University, Baltimore, MD  
2007-2011 Director of Esophageal Motility, Division of Gastroenterology & Hepatology, Johns Hopkins University, Baltimore, MD  
2011-2012 Director of Gastrointestinal Motility, Division of Gastroenterology & Hepatology, Johns Hopkins University, Baltimore, MD  
2012-2016 Clinical Director, Johns Hopkins Center for Neurogastroenterology & Motility, Division of Gastroenterology & Hepatology, Johns Hopkins University, Baltimore, MD  
2014-2016 Clinical Director, Johns Hopkins Bayview Medical Center Gastroenterology & Hepatology, Johns Hopkins University, Baltimore, MD  
2014-2016 Associate Professor of Medicine, Division of Gastroenterology & Hepatology, Johns Hopkins University, Baltimore, MD  
2016-Present Director, Esophageal Program, Stanford University School of Medicine  
2016-Present Clinical Associate Professor of Medicine, Division of Gastroenterology & Hepatology, Stanford University

**RESEARCH ACTIVITIES****Publications: Peer-reviewed Original Science Research**

1. Wong AC, Shetreat MD, **Clarke JO**, Rayport, S. D1- and D2-like dopamine receptors are colocalized on the presynaptic varicosities of striatal and nucleus accumbens neurons in vitro. *Neuroscience* 1999; 89: 221-233.
2. Giday SA, Magno P, Buscaglia JM, Canto MI, Ko CW, Shin EJ, Xia L, Wroblewski LM, **Clarke JO**, Kalloo AN, Jagannath SB, Kantsevov SV. Is blood the ideal submucosal cushioning agent? A comparative study in a porcine model. *Endoscopy* 2006; 38: 1230-1234.
3. **Clarke JO**, Jagannath SB, Kalloo AN, Long VR, Beitler DM, Kantsevov SV. An endoscopically implantable device stimulates the lower esophageal sphincter on-demand by remote control: a study using a canine model. *Endoscopy* 2007; 39: 72-76.
4. Pandolfino JE, Kim H, Ghosh SK, **Clarke JO**, Zhang Q, Kahrilas PJ. High-resolution manometry of the EGJ: an analysis of crural diaphragm function in GERD. *American Journal of Gastroenterology* 2007; 102: 1056-1063.
5. Giday SA, Magno P, Gabrielson KL, Buscaglia JM, Canto MI, Ko CW, **Clarke JO**, Kalloo AN, Jagannath SB, Shin EJ, Kantsevov SV. The utility of contrast-enhanced endoscopic ultrasound in monitoring ethanol-induced pancreatic tissue ablation: a pilot study in a porcine model. *Endoscopy* 2007; 39: 525-529.
6. Magno P, Giday SA, Gabrielson KL, Shin EJ, Buscaglia JM, **Clarke JO**, Ko CW, Jagannath SB, Canto MI, Sedrakyan G, Kantsevov SV. EUS-guided implantation of radio-opaque marker into mediastinal and celiac lymph nodes is safe and effective. *Gastrointestinal Endoscopy* 2007; 66: 387-392.
7. Ghosh SK, Pandolfino JE, Rice J, **Clarke JO**, Kwiatek M, Kahrilas PJ. Impaired deglutitive EGJ relaxation in clinical esophageal manometry: a quantitative analysis of 400 patients and 75 controls. *American Journal of Physiology – Gastrointestinal and Liver Physiology* 2007; 293: G878-885.
8. Magno P, Ko CW, Buscaglia JM, Giday SA, Jagannath SB, **Clarke JO**, Shin EJ, Kantsevov SV. Endoscopic ultrasound (EUS)-guided angiography: a novel approach to diagnostic and therapeutic interventions in the vascular system. *Gastrointestinal Endoscopy* 2007; 66: 587-591.
9. Shin EJ, Ko CW, Magno P, Giday SA, **Clarke JO**, Buscaglia JM, Sedrakyan G, Jagannath SB, Kalloo AN, Kantsevov SV. Comparative study of endoscopic clips: duration of attachment at the site of clip application. *Gastrointestinal Endoscopy* 2007; 66: 757-761.
10. Giday SA, Ko CW, **Clarke JO**, Shin EJ, Magno P, Jagannath SB, Buscaglia JM, Kantsevov SV. EUS-guided portal vein carbon dioxide angiography: a pilot study in a porcine model. *Gastrointestinal Endoscopy* 2007; 66: 814-819.
11. Ko CW, Shin EJ, Buscaglia JM, **Clarke JO**, Magno P, Giday SA, Chung SS, Cotton PB, Gostout CJ, Hawes RH, Pasricha PJ, Kalloo AN, Kantsevov SV. Preliminary pneumoperitoneum facilitates transgastric access into the peritoneal cavity for natural orifice transluminal endoscopic surgery: a pilot study in a live porcine model. *Endoscopy* 2007; 39: 849-853.
12. Pandolfino JE, Ghosh SK, Rice J, **Clarke JO**, Kwiatek MA, Kahrilas PJ. Classifying esophageal motility by pressure topography characteristics: a study of 400 patients and 75 controls. *American Journal of Gastroenterology* 2008; 103: 27-37.
13. Giday SA, **Clarke JO**, Buscaglia JM, Shin EJ, Ko CW, Magno P, Kantsevov SV. EUS-guided portal vein catheterization: a promising novel approach for portal angiography and portal vein pressure measurements. *Gastrointestinal Endoscopy* 2008; 67: 338-342.
14. Buscaglia JM, Giday SA, Kantsevov SV, **Clarke JO**, Magno P, Yong E, Mullin GE. Performance characteristics of the suspected blood indicator feature in capsule endoscopy according to indication for the study. *Clinical Gastroenterology and Hepatology* 2008; 6: 298-301.
15. **Clarke JO**, Giday SA, Magno P, Buscaglia JM, Shin EJ, Jagannath SB, Mullin GE. How good is capsule endoscopy for detection of periampullary lesions? Results of a tertiary referral center. *Gastrointestinal Endoscopy* 2008; 68: 267-272.
16. Buscaglia JM, Simons BW, Prosser BJ, Ruben DS, Giday SA, Magno P, **Clarke JO**, Shin EJ, Kalloo AN, Kantsevov SV, Gabrielson KL, Jagannath SB. Severity of post-ERCP pancreatitis directly proportional to the invasiveness of endoscopic intervention: a pilot study in a canine model. *Endoscopy* 2008; 40: 506-512.
17. Magno P, Giday SA, Gabrielson KL, Shin EJ, **Clarke JO**, Ko CW, Buscaglia JM, Jagannath SB, Canto MI, Kantsevov SV. EUS-guided submucosal implantation of a radiopaque marker: a simple and effective procedure to facilitate subsequent surgical and radiation therapy. *Gastrointestinal Endoscopy* 2008; 67: 1147-1152.
18. Buscaglia JM, Shin EJ, **Clarke JO**, Giday SA, Ko CW, Thuluvath PJ, Magno P, Dray X, Kantsevov SV. Endoscopic retrograde cholangiopancreatography, but not esophagogastroduodenoscopy or colonoscopy, significantly increased portal venous pressure: direct portal pressure measurements through endoscopic ultrasound-guided cannulation. *Endoscopy* 2008; 40: 670-674.
19. Buscaglia JM, Simons BW, Prosser BJ, Ruben DS, Giday SA, Magno P, **Clarke JO**, Shin EJ, Kalloo AN, Kantsevov SV, Gabrielson KL, Jagannath SB. Etanercept, a TNF-alpha binding agent, is ineffective in the prevention of post-ECP pancreatitis in canines. *Journal of the Pancreas* 2008; 9: 456-467.
20. Buscaglia JM, Kapoor S, **Clarke JO**, Bucobo JC, Giday SA, Magno P, Yong E, Mullin GE. Enhanced diagnostic yield with prolonged small bowel transit time during capsule endoscopy. *International Journal of Medical Sciences* 2008; 5: 303-308.
21. Ziessman HA, Chander A, **Clarke JO**, Ramos A, Wahl RL. The added diagnostic value of liquid gastric emptying compared with solid emptying alone. *Journal of Nuclear Medicine* 2009; 50: 726-731.

22. Elam JC, Ishman SL, Dunbar KB, **Clarke JO**, Gourin CG. The relationship between depressive symptoms and Voice Handicap Index scores in laryngopharyngeal reflux. *Laryngoscope* 2010; 120: 1900-1903.
23. Jodorkovsky D, Dunbar KB, Gearhart SL, Stein EM, **Clarke JO**. Biofeedback therapy for defecatory dysfunction: "real life" experience. *Journal of Clinical Gastroenterology* 2013; 47: 252-255.
24. Kim KJ, Victor D, Stein E, Valeshabad AL, Saxena P, Singh VK, Lennon AM, **Clarke JO**, Khashab MA. A novel self-propelled percutaneous endoscopic gastrojejunostomy (PEG-J): a pilot study. *Gastrointestinal Endoscopy* 2013; 78: 154-157.
25. **Clarke JO**, Sharaiha RZ, Valeshabad AK, Lee LA, Kalloo AN, Khashab MA. Through the scope trans-pyloric stent placement improves symptoms and gastric emptying in patients with gastroparesis. *Endoscopy* 2013; 45 Suppl 2 UCTN:E1 89-90.
26. Khashab MA, Stein E, **Clarke JO**, Saxena P, Kumbhari V, Chander Roland B, Kalloo AN, Stavropoulos S, Pasricha P, Inoue H. Gastric peroral endoscopy myotomy for refractory gastroparesis: first human endoscopic pyloromyotomy (with video). *Gastrointestinal Endoscopy* 2013; 78: 764-768.
27. Khashab MA, Messallam AA, Saxena P, Kumbhari V, Ricourt E, Aguila G, Roland BC, Stein E, Nandwani M, Inoue H, **Clarke JO**. Jet injection of dyed saline facilitates efficient peroral endoscopic myotomy. *Endoscopy* 2014; 46: 298-301.
28. Khashab MS, Saxena P, Kumbhari V, Nandwani M, Roland BC, Stein E, **Clarke JO**, Stavropoulos S, Inoue H, Pasricha PJ. Peroral endoscopic myotomy as a platform for the treatment of spastic esophageal disorders refractory to medical therapy (with video). *Gastrointestinal Endoscopy* 2014; 79: 136-139.
29. Jodorkovsky D, Price JC, Kim B, Dhalla S, Stein EM, **Clarke JO**. Multichannel intraluminal impedance – pH testing is clinically useful in the management of patients with gastroesophageal reflux symptoms. *Dig Dis Sci* 2014; 59: 1817-22.
30. Lidor AO, Ensor CR, Sheer AJ, Orens JB, **Clarke JO**, McDyer JF. Domperidone for delayed gastric emptying in lung transplant recipients with and without gastroesophageal reflux. *Progress in Transplantation* 2014; 24: 27-32.
31. Roland BC, Ciarleglio MM, **Clarke JO**, Semler JR, Tomakin E, Mullin GE, Pasricha PJ. Low ileocecal valve pressure is significantly associated with small intestinal bacterial overgrowth. *Dig Dis Sci* 2014; 59: 1269-77.
32. Chedid V, Dhalla S, **Clarke JO**, Roland BC, Dunbar KB, Koh J, Justino E, Tomakin E, Mullin GE. Herbal therapy is equivalent to rifaximin for the treatment of small intestinal bacterial overgrowth. *Global Advances in Health and Medicine* 2014; 3: 16-24.
33. Mathews SC, Ciarleglio M, Chavez YH, **Clarke JO**, Stein E, Chander Roland B. Upper esophageal sphincter abnormalities are strongly predictive of treatment response in patients with achalasia. *World J Clin Cases* 2014; 16: 448-54.
34. Chavez YH, Ciarleglio MM, **Clarke JO**, Nandwani M, Stein E, Roland BC. Upper esophageal sphincter abnormalities: frequent finding on high-resolution esophageal manometry and associated with poorer treatment response in achalasia. *Journal of Clinical Gastroenterology* 2015; 49: 17-23.
35. Jodorkovsky D, Macura KJ, Gearhart SL, Dunbar KB, Stein EM, **Clarke JO**. High resolution anorectal manometry and dynamic pelvic magnetic resonance imaging are complementary technologies. *J Gastroenterol Hepatol* 2015; 30: 71-4.
36. Roland BC, Ciarleglio MM, **Clarke JO**, Semler JR, Tomakin E, Mullin GE, Pasricha PJ. Small intestinal transit time is delayed in small intestinal bacterial overgrowth. *J Clin Gastroenterol* 2015; 49: 571-6.
37. Lynch KL, Dhalla S, Chedid V, Ravich WJ, Stein EM, Montgomery EA, Bochner BS, **Clarke JO**. Gender is a determinative factor in the initial clinical presentation of eosinophilic esophagitis. *Dis Esophagus* 2015 [epub ahead of print]
38. Antoniou AJ, Raja S, El-Khouli R, Mena E, Lodge MA, Wahl RL, **Clarke JO**, Pasricha PJ, Ziessman HA. Comprehensive radionuclide esophago-gastro-intestinal transit: methodology, normal values, and initial clinical experience. *J Nucl Med* 2015; 56: 721-27.
39. Khashab MA, El Zein M, Kumbhari V, Besharati S, Ngamruengphong S, Messallam A, Abdelgalil A, Saxena P, Tieu AH, Raja S, Stein E, Dhalla S, Garcia P, Singh VK, Pasricha PJ, Kalloo AN, **Clarke JO**. Comprehensive analysis of efficacy and safety of peroral endoscopic myotomy performed by a gastroenterologist in the endoscopy unit: a single-center experience. *Gastrointestinal Endoscopy* 2015 [epub ahead of print].
40. Khashab MA, Besharati S, Ngamruengphong S, Kumbhari V, El Zein M, Stein E, Tieu A, Mullin G, Dhalla S, Nandwani M, Singh VK, Canto MI, Kalloo AN, **Clarke JO**. Refractory gastroparesis can be successfully managed with endoscopic transpyloric stent placement and fixation. *Gastrointestinal Endoscopy* 2015; 82: 1106-1109.
41. Pasricha PJ, Yates KP, Nguyen L, **Clarke J**, Abell TL, Farrugia G, Hasler WL, Koch KL, Snape WJ, McCallum RW, Sarosiek I, Tonascia J, Miriel LA, Lee L, Hamilton F, Parkman HP. Outcomes and factors associated with reduced symptoms in patients with gastroparesis. *Gastroenterology* 2015; 149: 1762-1774.
42. Ngamruengphong S, von Rahden BH, Filser J, Tyberg A, Desai A, Sharaiha RZ, Lambroza A, Kumbhari V, El Zein M, Besharati S, **Clarke JO**, Stein EM, Kalloo AN, Kahaleh M, Khashab MA. Intraoperative measurement of esophagogastric junction cross-sectional area by impedance planimetry correlates with clinical outcomes of peroral endoscopic myotomy for achalasia: a multicenter study. *Surgical Endoscopy* 2015 [epub ahead of print]
43. El Zein M, Kumbhari V, Ngamruengphong S, Carson KA, Stein E, Tieu A, Chaveze Y, Ismail A, Dhalla S, **Clarke J**, Kalloo A, Canto MI, Khashab MA. Learning curve for peroral endoscopic myotomy. *Endosc Int Open* 2016; 4: E577-82.
44. Parkman HP, Hallinan EK, Hasler WL, Farrugia G, Koch KL, Calles J, Snape WJ, Abell TL, Sarosiek I, McCallum RW, Nguyen L, Pasricha PJ, **Clarke J**, Miriel L, Lee L, Tonascia J, Hamilton F. Nausea and vomiting in gastroparesis: similarities and differences in idiopathic and diabetic gastroparesis. *Neurogastroenterol Motil* 2016 [epub ahead of print]

## Extramural Funding

### Previous

- 4/15/06–7/31/16 Advancing science for the diagnosis and treatment of gastroparesis  
2U01DK073983-06  
Sponsor: NIH  
Direct cost: \$383,164/year  
Principal Investigator: P. Jay Pasricha, MD  
Co-investigator: **John O. Clarke**, MD (5% effort)  
The overall aim of this proposal is to lay the foundation for creating a network of clinical research sites with central data collection and analysis, and develop and implement common research protocols to study gastroparesis.
- 9/1/11– 9/30/12 Review of the Comparative Effectiveness of Diagnostic Technologies for Evaluation of Gastric and Colonic Motility Disorders  
Contract # HHSA-290-2007-10061, Task Order #9  
Johns Hopkins University Evidence-based Practice Center III, supported by the Agency for Healthcare Research and Quality  
Total cost: \$412,560  
Principal Investigators: **John O. Clarke**, MD (20% Effort) and Ellen M. Stein, MD  
The purpose of the project is to conduct a systematic review of the evidence on the utility of current testing modalities for gastric and colonic motility disorders
- 8/1/12–10/25/12 Needs for Future Research on the Comparative Effectiveness of Diagnostic Technologies for Evaluation of Gastric and Colonic Motility Disorders  
Contract # HHSA-290-2007-10061, Task Order #9  
Johns Hopkins University Evidence-based Practice Center III, supported by the Agency for Healthcare Research and Quality  
Total cost: \$59,689  
Principal Investigators: **John O. Clarke**, MD (20% Effort) and Ellen M. Stein, MD  
The purpose of the project is to define and prioritize the needs for future research on the utility of current testing modalities for gastric and colonic motility disorders
- 7/1/08–6/30/09 Mechanisms of visceral hypersensitivity in patients with functional heartburn and chest pain of presumed esophageal origin  
American Gastroenterological Association Donald O. Castell Award  
Total cost: \$35,000  
Principal Investigator: **John O. Clarke**, MD  
The purpose of this project was to evaluate mechanisms of afferent sensation in patients with non-cardiac chest pain and visceral hypersensitivity
- 7/1/06–6/30/07 Evaluation of Endoscopically-Implantable On-Demand Device to Stimulate the Lower Esophageal Sphincter  
American College of Gastroenterology Clinical Investigator Research Grant  
Total cost: \$26,950  
Primary Investigator: **John O. Clarke**, MD  
Responsible Investigator: Anthony N. Kalloo, MD  
The purpose of this project was to evaluate the role of a novel endoscopically-placed microstimulator in the management of gastroesophageal reflux

## EDUCATIONAL ACTIVITIES

### Educational Publications

#### Peer-Reviewed Educational Publications

1. **Clarke JO**, Gyawali CP, Tatum RP. High-resolution manometry. *Annals of the New York Academy of Sciences* 2011; 1232: 349-357.

2. Krarup AL, Lioa D, Gregersen H, Drewes AM, Hejazi RA, McCallum RW, Vega KJ, Frazzoni M, Frazzoni L, **Clarke JO**, Achem SR. Nonspecific motility disorders, irritable esophagus, and chest pain. *Annals of the New York Academy of Sciences* 2013; 1300: 96-109.
3. Savarino E, Zentilin P, Savarino V, Tenca A, Penagini R, **Clarke JO**, Bravi I, Zerbib F, Yuksel ES. Functional testing: pharyngeal pH monitoring and high-resolution manometry. *Annals of the New York Academy of Sciences* 2013; 1300: 226-235.
4. Devault K, McMahon BP, Celebi A, Costamagna G, Marchese M, **Clarke JO**, Hejazi RA, McCallum RW, Savarino V, Zentilin P, Savarino E, Thomson M, Souza RF, Donohoe CL, O'Farrell NJ, Reynolds JV. Defining esophageal landmarks, gastroesophageal reflux disease, and Barrett's esophagus. *Annals of the New York Academy of Sciences* 2013; 1300: 278-295.
5. Stein E, Berger Z, Hutfless S, Shah L, Wilson LM, Haberl EB, Bass EB, **Clarke JO**. Wireless motility capsule versus other diagnostic technologies for evaluating gastroparesis and constipation: a comparative effectiveness review. *Agency for Healthcare Research and Quality* 2013.
6. Stein E, **Clarke JO**, Hutfless S, Boulton C, Doggett D, Fawole OA, Bass EB. Wireless motility capsule versus other diagnostic technologies for evaluating gastroparesis and constipation: future research needs. *Agency for Healthcare Research and Quality* 2013.

#### **Invited Review Articles**

1. **Clarke JO**, Thuluvath PJ. Endoscopic frontiers in the field of hepatology. *Minerva Gastroenterologica e Dietologica* 2007; 53: 101-109.
2. **Clarke JO**, Mullin GE. A review of complementary and alternative approaches to immunomodulation. *Nutrition in Clinical Practice* 2008; 23: 49-62.
3. Mullin GE, Pickett-Blakely O, **Clarke JO**. Integrative medicine in gastrointestinal disease: evaluating the evidence. *Expert Review of Gastroenterology & Hepatology* 2008; 2: 261-280.
4. Mullin GE, **Clarke JO**. Role of complementary and alternative medicine in managing gastrointestinal motility disorders. *Nutrition in Clinical Practice* 2010; 25: 85-87.
5. **Clarke JO**, Pandolfino JE. Esophageal motor disorders: how to bridge the gap between advanced diagnostic tools and paucity of therapeutic modalities? *Journal of Clinical Gastroenterology* 2012; 46: 442-448.
6. **Clarke JO**, Snape WJ. Pyloric sphincter therapy: botulinum toxin, stents and pyloromyotomy. *Gastroenterol Clin North Am* 2015; 44: 127-136.
7. **Clarke JO**. Tests for evaluating eosinophilic esophagitis. *Gastroenterol Hepatol* 2015; 11: 775-777.
8. Ahuja NK, **Clarke JO**. Evaluation and management of infectious esophagitis in immunocompromised and immunocompetent individuals. *Curr Treat Options Gastroenterol* 2016; 14: 28-38.

#### **Editorials**

1. **Clarke JO**. Exploring options in advanced motility training. *Gastrointestinal Endoscopy* 2007; 66: 338-339.
2. **Clarke JO**, Pandolfino JE. Solving the dilemma of proton pump inhibitor nonresponders: targeting the mechanism. *Clinical Gastroenterology and Hepatology* 2012; 10: 336-337.
3. **Clarke JO**. Assessing constipation: the devil is in the details. *Journal of Clinical Gastroenterology* 2012; 46: 91-92.
4. **Clarke JO**. SIBO in gastroparesis: sci-fi or science fact? *Digestive Diseases and Sciences* 2014; 59: 510-512.

#### **Book Chapters**

1. **Clarke J**, Thomas D. Viral hepatitis. *The Osler Medical Handbook*. C.V. Mosby, 2003.
2. Stein B, Brungardt K, **Clarke J**, Rai R. Viral hepatitis. *The Osler Medical Handbook*. C.V. Mosby, 2<sup>nd</sup> Ed. 2006.
3. **Clarke JO**, Kalloo AN. Sphincter of Oddi dysfunction (post-cholecystectomy syndrome). *Yamada's Textbook of Gastroenterology*. Wiley-Blackwell, 5<sup>th</sup> Ed. 2009.
4. **Clarke J**. A 63-year-old man with intractable hiccups. *Complicated Cases in GI*. Slack Incorporated, 2009.
5. **Clarke J**. When I eat, food gets stuck. *Complicated Cases in GI*. Slack Incorporated, 2009.
6. **Clarke J**. Postprandial pain and eosinophilia. *Complicated Cases in GI*. Slack Incorporated, 2009.
7. **Clarke J**. A 58-year-old woman with fistulizing Crohn's disease. *Complicated Cases in GI*. Slack Incorporated, 2009.
8. **Clarke J**. A 74-year-old male with refractory diarrhea. *Complicated Cases in GI*. Slack Incorporated, 2009.
9. **Clarke J**. Progressive ascites in a patient from Sierra Leone. *Complicated Cases in GI*. Slack Incorporated, 2009.
10. **Clarke J**. An unusual case of ascites and gastrointestinal hemorrhage. *Complicated Cases in GI*. Slack Incorporated, 2009.
11. **Clarke JO**, Lee LA. Esophageal disease. *Johns Hopkins Internal Medicine Board Review 2010-2011*. C.V. Mosby, 3<sup>rd</sup> Ed. 2010.
12. **Clarke JO**, Lee LA. Peptic ulcer disease and gastrointestinal bleeding. *Johns Hopkins Internal Medicine Board Review 2010-2011*. C.V. Mosby, 3<sup>rd</sup> Ed. 2010.
13. **Clarke JO**, Hirano I. Upper gastrointestinal tract: gastrointestinal manifestations and management. *Scleroderma: From Pathogenesis to Comprehensive Management*. Springer, 2011.

14. Koh JM, Rampertab D, Turnbull LK, **Clarke JO**, Mullin GE. Evidence-based integrative therapy in IBD. *Advanced Therapy in Inflammatory Bowel Disease*. PMPH-USA, 3<sup>rd</sup> Ed. 2011.
15. **Clarke JO**, Lee LA. Esophageal disease. *Johns Hopkins Internal Medicine Board Review*. C.V. Mosby, 4<sup>th</sup> Ed. 2012.
16. **Clarke JO**, Lee LA. Peptic ulcer disease and gastrointestinal bleeding. *Johns Hopkins Internal Medicine Board Review*. C.V. Mosby, 4<sup>th</sup> Ed. 2012.
17. Quan SY, **Clarke JO**. Nausea and vomiting. *Principles and Practice of Hospital Medicine*. McGraw-Hill, 2012.
18. **Clarke JO**, Castell DO. The evaluation of typical GERD. *Extraesophageal manifestations of GERD*. Slack Incorporated, 2013.
19. Dhalla S, **Clarke J**. Esophageal manometry studies. *The Johns Hopkins Manual for GI Endoscopic Nurses*. Slack Incorporated, 3<sup>rd</sup> Ed. 2013.
20. Chedid V, Dhalla S, **Clarke J**. Assessing gastrointestinal motility. *The Johns Hopkins Manual for GI Endoscopic Nurses*. Slack Incorporated, 3<sup>rd</sup> Ed. 2013.
21. Chedid V, Dhalla S, **Clarke J**. Anorectal manometry. *The Johns Hopkins Manual for GI Endoscopic Nurses*. Slack Incorporated, 3<sup>rd</sup> Ed. 2013.
22. Chedid V, **Clarke JO**. Motility disorders of the stomach and small bowel. *Cameron: Current Surgical Therapy*. Elsevier, 11<sup>th</sup> Ed. 2013.
23. Jodorkovsky D, **Clarke JO**, Dunbar KB. Esophageal physiology, function tests, and endoscopic techniques. *Johns Hopkins Textbook of Cardiothoracic Surgery*. McGraw-Hill, 2<sup>nd</sup> Ed. 2014.
24. Okeke FC, **Clarke JO**. Swallowing disorders and dysphagia. *McNally: GI/Liver Secrets Plus*. Elsevier 5<sup>th</sup> Ed. 2014.
25. **Clarke JO**, Kalloo AN. Sphincter of Oddi dysfunction (post-cholecystectomy syndrome). *Yamada's Textbook of Gastroenterology*. Wiley-Blackwell, 6<sup>th</sup> Ed. 2014.
26. Lynch KL, **Clarke JO**. Esophageal disease. *Johns Hopkins Internal Medicine Board Review*. Elsevier, 5<sup>th</sup> Ed. 2015
27. Gonzalez-Velez E, **Clarke JO**. Peptic ulcer disease and gastrointestinal bleeding. *Johns Hopkins Internal Medicine Board Review*. Elsevier 5<sup>th</sup> Ed. 2015
28. **Clarke JO**, Pandolfino JE. Upper gastrointestinal tract: manifestations of systemic sclerosis. *Scleroderma: From Pathogenesis to Comprehensive Management*. Springer, 2<sup>nd</sup> Ed. 2016
29. **Clarke JO**. Pseudo-obstruction with malabsorption and malnutrition. *Scleroderma: From Pathogenesis to Comprehensive Management*. Springer, 2<sup>nd</sup> Ed. 2016
30. **Clarke JO**, Quan SY. Nausea and vomiting. *Principles and Practice of Hospital Medicine*. McGraw-Hill, 2<sup>nd</sup> Ed. 2016

#### Other Media

1. **Clarke JO**, Dassopoulos T. Ulcerative colitis. Physicians' Information and Education (PIER) Module, American College of Physicians. Posted online 2009. (<http://pier.acponline.org/physicians/diseases/d999/d999.html>)
2. **Clarke JO**. Gastric motility disorders. Gastroenterology Board Review, Audio-Digest Foundation, 2014.

#### Teaching

##### Classroom Instruction

- |           |  |
|-----------|--|
| 2002      | "Management of obesity," Osler Internal Medicine Housestaff Noon Conference, Lecturer, Johns Hopkins             |
| 2004      | "Amyloid hepatopathy," Gastroenterology Grand Rounds, Lecturer, Johns Hopkins University                         |
| 2004      | "Neuroendocrine tumors," Gastroenterology Grand Rounds, Lecturer, Johns Hopkins University                       |
| 2005      | "Gastrostomy complications," Gastroenterology Grand Rounds, Lecturer, Johns Hopkins University                   |
| 2005      | "Foodborne illnesses," Gastroenterology Grand Rounds, Lecturer, Johns Hopkins University                         |
| 2005      | "Eosinophilic gastroenteritis," Gastroenterology Grand Rounds, Lecturer, Johns Hopkins University                |
| 2005      | "Intractable hiccups," Gastroenterology Grand Rounds, Lecturer, Johns Hopkins University                         |
| 2005      | "Management of flatus," Gastroenterology Grand Rounds, Lecturer, Johns Hopkins University                        |
| 2005–2010 | Small group discussion leader, GI Clinical Pathophysiology (MSII), Johns Hopkins University School of Medicine   |
| 2006–2010 | Small group discussion leader, Functional Anatomy & Evolution (MSI), Johns Hopkins University School of Medicine |
| 2006      | "Tuberculous colitis," Gastroenterology Grand Rounds, Lecturer, Johns Hopkins University                         |
| 2006      | "Schatzki's ring," Gastroenterology Grand Rounds, Lecturer, Johns Hopkins University                             |
| 2006      | "Fundic gland polyps," GI Case Conference, Lecturer, Northwestern University                                     |
| 2006      | "Hiatal hernia," GI Case Conference, Lecturer, Northwestern University   |
| 2006      | "Fundic gland polyps," Gastroenterology Grand Rounds, Lecturer, Johns Hopkins University                         |
| 2007      | "Hiatal hernia," Gastroenterology Grand Rounds, Lecturer, Johns Hopkins University                               |
| 2007      | "Amyloidosis," Gastroenterology Grand Rounds, Lecturer, Johns Hopkins University                                 |
| 2007      | "Introduction to Motility," Gastroenterology Fellowship Didactics, Lecturer, Johns Hopkins University            |
| 2007      | "Introduction to Motility II," Gastroenterology Fellowship Didactics, Lecturer, Johns Hopkins University         |
| 2007      | "Constipation," Gastroenterology Fellowship Didactics, Lecturer, Johns Hopkins University                        |

- 2008 “Achalasia,” Gastroenterology Fellowship Didactics, Lecturer, Johns Hopkins University
- 2008 “Dysphagia,” Gastroenterology Fellowship Didactics, Lecturer, Johns Hopkins University
- 2008 “Narcotic bowel syndrome,” Barker Grand Rounds, Lecturer, Osler Internal Medicine Housestaff, Johns Hopkins University
- 2008 “Gastroesophageal reflux disease,” Gastroenterology Fellowship Didactics, Lecturer, Johns Hopkins University
- 2008 “Gastroparesis,” Gastroenterology Fellowship Didactics, Lecturer, Johns Hopkins University
- 2008 “Peptic ulcer disease,” Good Samaritan Noon Conference, Lecturer, Johns Hopkins University
- 2009 “Introduction to gastrointestinal motility,” GI Clinical Pathophysiology (MSII), Lecturer, Johns Hopkins University
- 2009 “Introduction to GI Motility,” Gastroenterology Fellowship Didactics, Lecturer, Johns Hopkins University
- 2010 “Introduction to gastrointestinal motility,” GI Clinical Pathophysiology (MSII), Johns Hopkins University
- 2010 “Esophageal motility,” Gastroenterology Fellowship Didactics, Lecturer, Johns Hopkins University
- 2010 “How to write a good endoscopy report,” Gastroenterology Fellowship Didactics, Lecturer, Johns Hopkins University
- 2010 “GI motility,” Osler Internal Medicine Housestaff Noon Conference, Lecturer, Johns Hopkins University
- 2010 “Motility disorders,” Genes to Society MSII Course, Lecturer, Johns Hopkins University
- 2010 “Non-cardiac chest pain and gastroparesis,” Gastroenterology Grand Rounds, Lecturer, Johns Hopkins University
- 2010 “Kaposi’s sarcoma,” Clinicopathological Conference, Lecturer, Johns Hopkins University
- 2011 “Introduction to esophageal motility,” Gastroenterology Fellowship Didactics, Lecturer, Johns Hopkins University
- 2011 “Gastroesophageal reflux,” Gastroenterology Fellowship Didactics, Lecturer, Johns Hopkins University
- 2011 “When gas becomes a problem,” Barker Grand Rounds, Lecturer, Osler Internal Medicine Housestaff, Johns Hopkins University
- 2011 “Swallowing disorders and esophageal complaints,” Surgery Residency Didactics, Lecturer, Halsted Surgical Residency, Johns Hopkins University
- 2011 “Introduction to motility disorders,” Genes to Society MSII Course, Lecturer, Johns Hopkins University
- 2012 “Esophageal motility,” Gastroenterology Fellowship Didactics, Lecturer, Johns Hopkins University
- 2012 “Non-cardiac chest pain,” Barker Grand Rounds, Lecturer, Osler Internal Medicine Housestaff, Johns Hopkins University
- 2012–2015 “Introduction to GI/Liver genes to society,” Genes to Society MSII Course, Lecturer, Johns Hopkins University
- 2012–2015 “Introduction to GI Motility,” Genes to Society MSII Course, Lecturer, Johns Hopkins University
- 2012–2015 “Functional GI disorders: gastroparesis & constipation,” Genes to Society MSII Course, Lecturer, JHUSOM
- 2012–2013 “GI Review & Questions: pathophysiology,” Genes to Society MSII Course, Lecturer, Johns Hopkins University
- 2012–2015 Small group discussion leader, Genes to Society MSII Course, Johns Hopkins University
- 2012–2013 “Peptic ulcer disease,” Good Samaritan Noon Conference, Lecturer, Johns Hopkins University
- 2013 “Gastroparesis,” Osler Internal Medicine Housestaff Noon Conference, Lecturer, Johns Hopkins University
- 2013–2015 “Introduction to gastrointestinal motility,” Gastroenterology Fellowship Didactics, Lecturer, Johns Hopkins University
- 2013 “Esophageal disorders,” Osler Internal Medicine Housestaff Noon Conference, Lecturer, Johns Hopkins University
- 2013 “Introduction to GI section,” Gastroenterology MSII Course, Lecturer, Perdana University Graduate School of Medicine (Kuala Lumpur, Malaysia)
- 2013 “Introduction to GI physiology,” Gastroenterology MSII Course, Lecturer, Perdana University Graduate School of Medicine (Kuala Lumpur, Malaysia)
- 2013 “Esophageal physiology and dysphagia,” Gastroenterology MSII Course, Lecturer, Perdana University Graduate School of Medicine (Kuala Lumpur, Malaysia)
- 2013 “Clinical presentations of esophageal disease,” Gastroenterology MSII Course, Lecturer, Perdana University Graduate School of Medicine (Kuala Lumpur, Malaysia)
- 2013 “Small bowel physiology,” Gastroenterology MSII Course, Lecturer, Perdana University Graduate School of Medicine (Kuala Lumpur, Malaysia)
- 2013 “Fat malabsorption,” Gastroenterology MSII Course, Lecturer, Perdana University Graduate School of Medicine (Kuala Lumpur, Malaysia)
- 2013 “Introduction to GI motility,” Gastroenterology MSII Course, Lecturer, Perdana University Graduate School of Medicine (Kuala Lumpur, Malaysia)
- 2013 “GI pharmacology I,” Gastroenterology MSII Course, Lecturer, Perdana University Graduate School of Medicine (Kuala Lumpur, Malaysia)
- 2013 “GI Board Review,” Gastroenterology MSII Course, Lecturer, Perdana University Graduate School of Medicine (Kuala Lumpur, Malaysia)

- 2013 “GI pharmacology II,” Gastroenterology MSII Course, Lecturer, Perdana University Graduate School of Medicine (Kuala Lumpur, Malaysia)
- 2013 “Functional GI disorders,” Gastroenterology MSII Course, Lecturer, Perdana University Graduate School of Medicine (Kuala Lumpur, Malaysia)
- 2013 “Pancreatitis,” Gastroenterology MSII Course, Lecturer, Perdana University Graduate School of Medicine (Kuala Lumpur, Malaysia)
- 2013 “Pancreatic cancer and cysts,” Gastroenterology MSII Course, Lecturer, Perdana University Graduate School of Medicine (Kuala Lumpur, Malaysia)
- 2013 “Final GI review,” Gastroenterology MSII Course, Lecturer, Perdana University Graduate School of Medicine (Kuala Lumpur, Malaysia)
- 2014 “Gastroparesis,” Osler Internal Medicine Housestaff Noon Conference, Lecturer, Johns Hopkins University
- 2014 “Esophageal dysmotility and reflux,” Gastroenterology Fellowship Didactics, Lecturer, Johns Hopkins University
- 2014 “Gastroparesis,” Good Samaritan Noon Conference, Lecturer, Johns Hopkins University
- 2014 “Esophageal disorders,” Good Samaritan Noon Conference, Lecturer, Johns Hopkins University
- 2014 – 2015 “Introduction to gastrointestinal physiology,” Genes to Society MSII Course, Lecturer, Johns Hopkins University
- 2014 – 2015 “Gastric physiology,” Genes to Society MSII Course, Lecturer, Johns Hopkins University
- 2014 – 2015 “Small bowel physiology,” Genes to Society MSII Course, Lecturer, Johns Hopkins University
- 2015 “Overview of GI anatomy and embryology,” Genes to Society MSII Course, Lecturer, Johns Hopkins University
- 2015 “Diarrhea,” Genes to Society MSII Course, Lecturer, Johns Hopkins University
- 2015 “GI Review,” Genes to Society MSII Course, Lecturer, Johns Hopkins University
- 2015 “A case of atypical chest pain,” Barker Grand Rounds, Lecturer, Osler Internal Medicine Housestaff, Johns Hopkins University

***Clinical Instruction***

- 2007–2016 GI Fellowship, Endoscopy preceptor (individually instruct 1 fellow every 6 months), Johns Hopkins University
- 2007–20116 GI Fellowship, Subspecialty clinic preceptor (individually instruct 1 fellow every 6 months), Johns Hopkins University
- 2007–2010 GI Fellowship, Continuity clinic preceptor (precepted 3-4 fellows in clinic), Johns Hopkins University
- 2008–2016 Barker Firm, Teaching attending (one month per year), Osler Residency Program, Johns Hopkins University
- 2010–2016 Gynecology Advanced Fellowship, Clinic/motility preceptor for colorectal rotation (precept 1 fellow per year for a 2-month block), Johns Hopkins University
- 2011–2016 GI Motility Fellowship, Clinic preceptor (individually instruct 1 fellow per year)
- 2011–2016 GI Motility Fellowship, Motility preceptor (individually instruct 1 fellow per year)
- 2016-present GI Fellowship, Endoscopy preceptor (individually instruct fellows on a rotating basis), Stanford University

***CME Instruction***

- 2004 “A case of amyloid hepatopathy,” Johns Hopkins Annual Topics in Gastroenterology & Hepatology, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2007 “Clinicopathological correlates,” Johns Hopkins Current Topics in Gastrointestinal and Liver Pathology, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2007 “What’s new in the evaluation of esophageal motility disorders?” Johns Hopkins Annual Topics in Gastroenterology & Hepatology, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2008 “Diagnosing the IBS patient: Rome III or Baltimore I?” Johns Hopkins Gastroenterology & Hepatology: Viva la Vida, Lecturer, Johns Hopkins University (San Juan, Puerto Rico)
- 2008 “Non-cardiac chest pain: new gadgets and best work-up in 2008,” Johns Hopkins Gastroenterology & Hepatology: Viva la Vida, Lecturer, Johns Hopkins University (San Juan, Puerto Rico)
- 2008 “New modalities in the evaluation of GERD: impedance, Bravo, Pillcam and high-resolution manometry,” Johns Hopkins University Tumulty Topics in Internal Medicine, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2008 “How to manage reflux in 2008,” Johns Hopkins Hospital Department of Medicine Grand Rounds, Lecturer, Johns Hopkins University
- 2008 “The evaluation & treatment of GERD: From AZ0865 to Zegerid,” Harbor Hospital Medical Grand Rounds, Lecturer (Baltimore, MD)
- 2008–2010 “Esophageal disease,” Internal Medicine Board Review Course, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2008–2010 “Peptic ulcer disease and gastrointestinal bleeding,” Internal Medicine Board Review Course, Lecturer, Johns Hopkins University (Baltimore, MD)

- 2009 “Esophageal motility lab,” Thoracic Surgery Rounds, Lecturer, Johns Hopkins University Department of Surgery (Baltimore, MD)
- 2009 “The evaluation & treatment of GERD,” Johns Hopkins Medical & Surgical Gastroenterology: A Multidisciplinary Approach, Lecturer, Johns Hopkins University (Aspen, CO)
- 2009 “How to evaluate dysphagia in 2009,” Johns Hopkins Medical & Surgical Gastroenterology: A Multidisciplinary Approach, Lecturer, Johns Hopkins University (Aspen, CO)
- 2009 “An approach to non-cardiac chest pain in 2009,” Johns Hopkins Gastroenterology & Hepatology: Viva la Vida, Lecturer, Johns Hopkins University (San Juan, Puerto Rico)
- 2009 “Diagnosing esophageal disorders in 2009: an update,” Johns Hopkins Gastroenterology & Hepatology: Viva la Vida, Lecturer, Johns Hopkins University (San Juan, Puerto Rico)
- 2009 “Outpatient evaluation of GI bleeding: an oxymoron?” Johns Hopkins Gastroenterology Symposium: Nurses, Advanced Practice Providers and Gastroenterologists, Lecturer, Johns Hopkins University (Washington, DC)
- 2009 “Interesting GI lab cases,” Johns Hopkins Gastroenterology Symposium: Nurses, Advanced Practice Providers and Gastroenterologists, Lecturer, Johns Hopkins University (Washington, DC)
- 2009 “Reflux testing in 2009: why, who & how,” Johns Hopkins Annual Topics in Gastroenterology & Hepatology, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2010 “A clinical approach to non-cardiac chest pain,” Johns Hopkins Medical & Surgical Gastroenterology: A Multidisciplinary Approach, Lecturer, Johns Hopkins University (Vail, CO)
- 2010 “Diagnostic testing in functional bowel disease – is there a role for endoscopy, labs, breath tests and Smartpill?” Johns Hopkins Medical & Surgical Gastroenterology: A Multidisciplinary Approach, Lecturer, Johns Hopkins University (Vail, CO)
- 2010 “Eosinophilic esophagitis: the new GI epidemic,” Johns Hopkins Gastroenterology & Hepatology: Viva la Vida, Lecturer, Johns Hopkins University (San Juan, Puerto Rico)
- 2010 “Management of the refractory non-cardiac chest pain patient”, Johns Hopkins Gastroenterology & Hepatology: Viva la Vida (San Juan, Puerto Rico)
- 2010 “Defecatory dysfunction & fecal incontinence: how to evaluate & when to refer to surgery,” Johns Hopkins Houston Everett Memorial Course in Urogynecology, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2010 “Bravo, manometry and pH impedance,” Johns Hopkins Gastroenterology Symposium for Nurses, Nurse Practitioners and Physician Assistants, Lecturer, Johns Hopkins University (Las Vegas, NV)
- 2010 “Irritable bowel syndrome,” Johns Hopkins Gastroenterology Symposium for Nurses, Nurse Practitioners and Physician Assistants, Lecturer, Johns Hopkins University (Las Vegas, NV)
- 2010 “Scleroderma and the gut from top to bottom!” Johns Hopkins 5<sup>th</sup> Annual Advances in the Diagnosis and Treatment of the Rheumatic Diseases, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2010 “Achalasia: medical versus surgical treatment,” Johns Hopkins Annual Topics in Gastroenterology & Hepatology, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2010 “Eosinophilic esophagitis: the silent GI epidemic,” Johns Hopkins Annual Topics in Gastroenterology & Hepatology, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2010 “Reflux testing in 2010: who, when & how,” Johns Hopkins Annual Topics in Gastroenterology & Hepatology, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2010 “Eosinophilic esophagitis: the silent GI epidemic,” Bayview Medical Center Department of Medicine Grand Rounds, Lecturer, Johns Hopkins University
- 2011 “A clinical approach to dysphagia,” Johns Hopkins Medical & Surgical Gastroenterology: A Multidisciplinary Approach, Lecturer, Johns Hopkins University (Vail, CO)
- 2011 “Medical therapy for GERD: is the reward worth the risk?” Johns Hopkins Medical & Surgical Gastroenterology: A Multidisciplinary Approach, Lecturer, Johns Hopkins University (Vail, CO)
- 2011 “GI Motility,” Pediatric GI Grand Rounds, Lecturer, Johns Hopkins University
- 2011 “Eosinophilic esophagitis,” Allergy & Immunology Grand Rounds, Lecturer, Johns Hopkins University
- 2011 “Diagnosing & treating irritable bowel syndrome in 2011”, Franklin Square Hospital Family Practice Grand Rounds, Lecturer (Baltimore, MD)
- 2011 “Eosinophilic esophagitis: an emerging epidemic,” Johns Hopkins Hospital Department of Medicine Grand Rounds, Lecturer, Johns Hopkins University
- 2011 “Refractory heartburn: a cogent approach to diagnosis & treatment,” Johns Hopkins Gastroenterology & Hepatology: Viva la Vida, Lecturer, Johns Hopkins University (San Juan, Puerto Rico)
- 2011 “Fecal incontinence: a systematic approach”, Johns Hopkins Gastroenterology & Hepatology: Viva la Vida, Lecturer, Johns Hopkins University (San Juan, Puerto Rico)
- 2011 “Motility disorders and abdominal pain – a practical approach,” Evening with the experts educational series: abdominal pain for the primary care physician, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2011 “Flatulence: when gas becomes a problem,” Johns Hopkins Annual Topics in Gastroenterology & Hepatology, Lecturer, Johns Hopkins University (Baltimore, MD)

- 2011 “Challenges in constipation and anorectal disorders,” Johns Hopkins Annual Topics in Gastroenterology & Hepatology, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2012 “Eosinophilic esophagitis,” Allergy & Immunology Grand Rounds, Lecturer, Johns Hopkins University
- 2012 “A clinical approach to gastroparesis: from medications to gastric stimulation,” Harbor Hospital Medical Grand Rounds, Lecturer (Baltimore, MD)
- 2012 “A new clinical approach to achalasia: diagnosis and management in 2012,” Johns Hopkins Medical & Surgical Gastroenterology: A Multidisciplinary Approach, Lecturer, Johns Hopkins University (Aspen, CO)
- 2012 “A clinical approach to gastroparesis: from medications to gastric stimulation,” Johns Hopkins Medical & Surgical Gastroenterology: A Multidisciplinary Approach, Lecturer, Johns Hopkins University (Aspen, CO)
- 2012 “Non-cardiac chest pain,” Johns Hopkins Gastroenterology & Hepatology: Viva la Vida, Lecturer, Johns Hopkins University (San Juan, Puerto Rico)
- 2012 “Closing the gap on fecal incontinence,” Johns Hopkins Gastroenterology & Hepatology: Viva la Vida, Lecturer, Johns Hopkins University (San Juan, Puerto Rico)
- 2012 “Flatulence: when gas becomes a problem,” Johns Hopkins University Tumulty Topics in Internal Medicine, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2012 “My patient has achalasia: what should I do?” Johns Hopkins Annual Topics in Gastroenterology & Hepatology, Lecturer (with Michael Marohn co-presenter), Johns Hopkins University (Baltimore, MD)
- 2012 “Closing the gap on fecal incontinence,” Johns Hopkins Annual Topics in Gastroenterology & Hepatology, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2013 “Eosinophilic esophagitis: an emerging epidemic,” Johns Hopkins Medical & Surgical Gastroenterology: A Multidisciplinary Approach, Lecturer, Johns Hopkins University (Aspen, CO)
- 2013 “Closing the gap on fecal incontinence,” Johns Hopkins Medical & Surgical Gastroenterology: A Multidisciplinary Approach, Lecturer, Johns Hopkins University (Aspen, CO)
- 2013 “Making sense of tests of esophageal function: what to use and when,” Johns Hopkins Gastroenterology & Hepatology: Viva la Vida, Lecturer, Johns Hopkins University (San Juan, Puerto Rico)
- 2013 “New approaches to gastroparesis,” Johns Hopkins Gastroenterology & Hepatology: Viva la Vida, Lecturer, Johns Hopkins University (San Juan, Puerto Rico)
- 2013 “Gastrointestinal manifestations of rheumatic disease,” Johns Hopkins 9<sup>th</sup> Annual Advances in the Diagnosis and Treatment of the Rheumatic Diseases, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2013 “Which GI motility tests should I incorporate in my practice?” Johns Hopkins Annual Topics in Gastroenterology & Hepatology, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2013 “GERD and the limitations of PPIs”, Greater Baltimore Medical Center Grand Rounds, Lecturer (Baltimore, MD)
- 2014 “A practical approach to fecal incontinence,” Johns Hopkins Medical & Surgical Gastroenterology: A Multidisciplinary Approach, lecturer, Johns Hopkins University & University of Colorado (Aspen, Colorado)
- 2014 “Which GI motility tests should I incorporate in my practice: unscrambling high resolution manometry, impedance, bravo, endoflip and smartpill,” Johns Hopkins Medical & Surgical Gastroenterology: A Multidisciplinary Approach, lecturer, Johns Hopkins University & University of Colorado (Aspen, Colorado)
- 2014 “Update in management of non-cardiac chest pain,” Johns Hopkins Gastroenterology & Hepatology: Viva la Vida, lecturer, Johns Hopkins University (San Juan, Puerto Rico)
- 2014 “What to do with eosinophilic esophagitis,” Johns Hopkins Gastroenterology & Hepatology: Viva la Vida, lecturer, Johns Hopkins University (San Juan, Puerto Rico)
- 2014 “A 42-year-old senator with persistent chest pain,” Johns Hopkins Gastroenterology & Hepatology: Viva la Vida, lecturer, Johns Hopkins University (San Juan, Puerto Rico)
- 2014 “Eosinophilic esophagitis: a gastroenterologist’s perspective,” Allergy & Immunology Grand Rounds, Lecturer, Johns Hopkins University
- 2014 “Constipation,” Division of Female Pelvic Medicine and Reconstructive Surgery Grand Rounds, Lecturer, Johns Hopkins University
- 2014 “How I approach gastroparesis,” Johns Hopkins Annual Topics in Gastroenterology & Hepatology, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2015 “How to evaluate dysphagia in 2015,” Johns Hopkins Medical & Surgical Gastroenterology: A Multidisciplinary Approach, Lecturer, Johns Hopkins University (Vail, CO)
- 2015 “Eosinophilic esophagitis: the 21<sup>st</sup> century GI epidemic?” Johns Hopkins Medical & Surgical Gastroenterology: A Multidisciplinary Approach, Lecturer, Johns Hopkins University (Vail, CO)
- 2015 “Pyloric-targeted therapies for managing gastroparesis,” Johns Hopkins Gastroenterology & Hepatology: Viva la Vida, lecturer, Johns Hopkins University (San Juan, Puerto Rico)
- 2015 “A 42-year-old construction worker with difficulty swallowing liquids but not solids,” Johns Hopkins Gastroenterology & Hepatology: Viva la Vida, lecturer, Johns Hopkins University (San Juan, Puerto Rico)
- 2015 “Which GI motility tests should you incorporate in your practice,” Johns Hopkins Annual Topics in Gastroenterology & Hepatology, Lecturer, Johns Hopkins University (Baltimore, MD)

- 2015 “Constipation,” Division of Female Pelvic Medicine and Reconstructive Surgery Grand Rounds, Lecturer, Johns Hopkins University
- 2015 “Diagnosis & treating irritable bowel syndrome in 2015,” Union Memorial Hospital Medicine Grand Rounds, lecturer (Baltimore, MD)
- 2016 “Achalasia in the 21<sup>st</sup> century: where are we now?” Johns Hopkins Medical & Surgical Gastroenterology: A Multidisciplinary Approach, Lecturer, Johns Hopkins University (Aspen, CO)
- 2016 “Eosinophilic esophagitis: the new GI epidemic?,” Johns Hopkins Medical & Surgical Gastroenterology: A Multidisciplinary Approach, Lecturer, Johns Hopkins University (Aspen, CO)
- 2016 “Which motility tests should I incorporate in my practice?” Johns Hopkins Medical & Surgical Gastroenterology: A Multidisciplinary Approach, Lecturer, Johns Hopkins University (Aspen, CO)
- 2016 “Using esophageal manometry and/or conventional line tracing to treat esophageal motility disorders,” Johns Hopkins Gastroenterology & Hepatology: Viva la Vida, lecturer, Johns Hopkins University (San Juan, Puerto Rico)
- 2016 “The use of antroduodenal manometry in treating motility disorders,” Johns Hopkins Gastroenterology & Hepatology: Viva la Vida, lecturer, Johns Hopkins University (San Juan, Puerto Rico)
- 2016 “I treat achalasia with POEM - No” Johns Hopkins Gastroenterology & Hepatology: Viva la Vida, lecturer (debate with Mouen Khashab), Johns Hopkins University (San Juan, Puerto Rico)
- 2016 “An academic approach to flatulence,” Johns Hopkins Hospital Department of Medicine Grand Rounds, Lecturer, Johns Hopkins University
- 2016 “How to approach reflux in 2016,” Saint Agnes-Stanford Hepatobiliary & GI Symposium, Lecturer, Saint Agnes Medical Center (Fresno, California)

**Workshops / Seminars**

- 2008 “GERD & lung transplantation,” Lung transplant retreat, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2008 “GI tract in scleroderma,” Scleroderma Center Board Meeting, Lecturer, Johns Hopkins University Scleroderma Board (Baltimore, MD)
- 2012 “Fecal incontinence,” Johns Hopkins Bayview Medical Center Motility Seminar: constipation & fecal incontinence: what you need to know & when you should see us, Lecturer, Johns Hopkins University (Baltimore, MD)
- 2013 “Live manometry case demonstration (3 cases),” Annual Meeting of the Venezuelan Gastroenterology Society, Lecturer/demonstrator, Venezuelan Gastroenterology Society (Caracas, Venezuela)
- 2013 “Motility cases from Johns Hopkins Hospital,” Annual Meeting of the Venezuelan Gastroenterology Society, Lecturer, Venezuelan Gastroenterology Society (Caracas, Venezuela)
- 2014 “Live endoscopy and manometry,” Annual Clinical Meeting of the American Neurogastroenterology and Motility Society, Moderator/demonstrator, American Neurogastroenterology and Motility Society (Baltimore, MD)
- 2014 “GERD, chest pain, swallowing problems,” Annual Clinical Meeting of the American Neurogastroenterology and Motility Society Patient-Doctor Forum, discussant, American Neurogastroenterology and Motility Society (Baltimore, MD)
- 2016 “Hands on: manometry & pH/impedance,” American College of Gastroenterology Annual 2<sup>nd</sup> Year Fellows Course, Moderator/demonstrator, American College of Gastroenterology (Washington, DC)
- 2016 “Meet the professor session: GI: GERD/GA VE and small bowel,” 4<sup>th</sup> Systemic Sclerosis World Congress, Discussant (co-run with Dinesh Khanna), 4<sup>th</sup> Systemic Sclerosis World Congress (Lisbon, Portugal)

**Mentoring**

**Advisees**

- 2009–2011 Daniil Rolshud, MD (GI Fellow), Pursued an advanced endoscopy fellowship at Columbia University after GI fellowship. Currently in private practice in Maine. Role: I served as his clinical and research mentor during fellowship.
- 2010–2011 Monica C.R. Nandwani, CRNP (NP Fellow). Previously on faculty for the JHUSOM Division of Gastroenterology & Hepatology and recently moved to Stanford Healthcare. Role: I was Monica’s main clinical mentor during her NP Fellowship.
- 2010–2012 Daniela Jodorkovsky, MD (GI Fellow). Currently an Assistant Professor of Medicine at Columbia Presbyterian Medical Center in New York City and Director of Gastrointestinal Motility. Role: I served as her research mentor during fellowship and our work led to two oral presentations at major GI conferences during her fellowship and three publications.
- 2010–2013 Sameer Dhalla, MD (GI Fellow). Currently in private practice in New Jersey and previously was an Assistant Professor of Medicine at Johns Hopkins University for 3 years. Role: I served as his main research and clinical

- mentor during his second and third year of fellowship and have served as a co-mentor for him (with Jay Pasricha) during his fourth year and as faculty.
- 2011–2012 Lisette Musaib-Ali, MD (GI Motility Fellow). Internist at Jai Medical Center, Baltimore, MD. Role: I served as Lisette’s clinical mentor during her GI motility fellowship.
- 2012–2013 Yamile Haito Chavez, MD (GI Motility Fellow). Currently a practicing surgeon in Chile. Role: I served as Yamile’s main motility clinical mentor during her GI motility fellowship.
- 2012–2013 Victor Chedid, MD (Post-doc fellow). Currently a GI fellow at the Mayo Clinic in Rochester, MN. Role: I served as his research mentor during an 18-month post-doc fellowship after completing internship in Beirut and before starting residency in Internal Medicine. He presented several abstracts at ACG and DDW. One paper is published and several others are in submission.
- 2012–2015 Krissy Lynch, MD (GI Fellow). Currently an Assistant Professor of Medicine at University of Pennsylvania. Role: I served as her main clinical and research mentor during her categorical GI fellowship. She has presented four first-author posters at 3 major GI conferences, has one paper published and several others in preparation.
- 2012–2015 Shreya Raja, MD (GI Fellow). Currently an Assistant Professor of Medicine at Emory University. Role: I served as her main clinical and research mentor during her categorical GI fellowship. She has three papers currently in preparation and one published.
- 2013–2014 Francis Okeke, MD (GI Motility Fellow). Role: I served as his main clinical and research mentor during his GI motility fellowship. He is currently applying for a categorical GI fellowship position and pursuing research in achalasia and scleroderma. He had an oral presentation at DDW 2014, has one paper and chapter published and several more in preparation.
- 2015–2016 Nitin Ahuja, MD (GI Fellow). Role: I served as his main clinical and research mentor during his categorical GI fellowship. We investigated the role of impedance planimetry in motility disorders and also in patient perception of nausea therapies and symptom localization. He has several reviews in publication and an original research article recently submitted.

**Educational Program Building / Leadership**

- 2008–2016 Osler Medical Residency, Barker Firm Faculty Member
- 2008–2015 Johns Hopkins University Annual Topics in Gastroenterology & Hepatology, CME course co-director
- 2008–2010 Johns Hopkins University School of Medicine MSII Clinical Pathophysiology Course, GI section director. *Raised the course from the 3<sup>rd</sup>-worst ranked section to 2<sup>nd</sup>-highest ranked section in the two years I directed the course; the medical school curriculum changed and the course was abolished in 2010.*
- 2009–2016 Johns Hopkins University Annual Medical & Surgical Gastroenterology, CME course  
*This is an annual CME course jointly sponsored by Johns Hopkins University and the University of Colorado. The course is sponsored by the departments of Medicine and Surgery and is now in its 33<sup>rd</sup> year.*
- 2009-2012 Co-director
- 2013-2016 Director
- 2011–2014 GI Motility Fellowship, Director, Division of Gastroenterology & Hepatology, Johns Hopkins University  
*I was the inaugural director of this fellowship and completed all the paperwork and initiation process to get the program off the ground. I stepped down in 2014 to ensure junior faculty could achieve a leadership position.*
- 2012–2015 JHUSOM Genes to Society Course (MSII), Gastroenterology & Hepatology course director. *Raised overall quality ratings of course from 1% (very good or excellent ratings) the year prior to my involvement to 84% in my first year as director.*
- 2013 Perdana University Graduate School of Medicine, Gastroenterology MSII Course, Co-director

**CLINICAL ACTIVITIES**

**Certification**

**Medical**

- 2002–2016 Maryland Medical License
- 2002–2016 Maryland Controlled Dangerous Substance Registration
- 2002–present DEA Registration
- 2016–present California Medical License

**Boards**

- 2000-Present National Board of Medical Examiners - 2000
- 2002-Present American Board of Internal Medicine #211894 (renewed 2012)
- 2007-Present American Board of Internal Medicine – Gastroenterology & Hepatology #211894

### **Clinical (Service) Responsibilities**

2007–2008	Gastroenterology 1 <sup>st</sup> year faculty: 2 days endoscopy per week, 1 ½ days clinic per week, ½ day motility testing per week, 8 weeks on-service
2008–2009	Gastroenterology 2 <sup>nd</sup> year faculty: 1 ½ days endoscopy per week, 1 ½ days clinic per week, 1 day motility testing per week, 12 weeks on-service
2009–2010	Gastroenterology 3 <sup>rd</sup> year faculty: 1 ½ days endoscopy per week, 1 ½ days clinic per week, 1 day motility testing per week, 8 weeks on-service
2010–2011	Gastroenterology 4 <sup>th</sup> year faculty: 1 ½ days endoscopy per week, 1 ½ days clinic per week, 1 day motility testing per week, 8 weeks on-service
2011–2012	Gastroenterology 5 <sup>th</sup> year faculty: 1 ½ days endoscopy per week, 1 ½ days clinic per week, 1 day motility testing per week, 4 weeks on-service
2012–2013	Gastroenterology 6 <sup>th</sup> year faculty: 1 ½ days endoscopy per week, 1 ½ days clinic per week, 1 day motility testing per week, 4 weeks on-service
2013–2014	Gastroenterology 7 <sup>th</sup> year faculty: 1 ½ days endoscopy per week, 2 days clinic per week, ½ day motility testing per week, 4 weeks on-service
2014–2015	Gastroenterology 8 <sup>th</sup> year faculty: 1 day endoscopy per week, 1 ½ days clinic per week, ½ day motility testing per week, 4 weeks on-service
2015–2016	Gastroenterology 9 <sup>th</sup> year faculty: 1 day endoscopy per week, 1 ½ days clinic per week, ½ day motility testing per week, 4 weeks on-service
2016–2017	Gastroenterology 1 <sup>st</sup> year faculty at Stanford: 1 ½ days clinic per week, 1 ¾ days endoscopy per week, motility testing as required based on clinical volume, 4 weeks on-service

### **Clinical Program Building / Leadership**

2007–2011	Director of Esophageal Motility, Johns Hopkins University Division of Gastroenterology & Hepatology
2011–2012	Director of Gastrointestinal Motility, Johns Hopkins University Division of Gastroenterology & Hepatology
2011–2014	Director, GI Motility Fellowship, Johns Hopkins University Division of Gastroenterology & Hepatology
2012–2016	Clinical Director, Johns Hopkins Center for Neurogastroenterology & Motility, Johns Hopkins University Division of Gastroenterology & Hepatology
2014–2016	Clinical Director, Johns Hopkins Bayview Medical Center Gastroenterology & Hepatology, Johns Hopkins University Division of Gastroenterology & Hepatology <i>I increased clinic and endoscopic volume by 100% over the 24 months I was in this role; I left this position in preparation for my transition to Stanford.</i>
2016–present	Director, Esophageal Program, Stanford University School of Medicine

### **SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES**

#### **System Innovation and Quality Improvement efforts within JHM**

2008–2009	GI Inpatient Service Committee, Task force member. Helped formulate the current hospitalist format employed for the GI inpatient (MEG) service.
2012–2013	Bayview/JHH Merge Committee, Task force leader. Helped craft recommendations to enable merger of GI inpatient services on Broadway and Bayview campuses.

### **ORGANIZATIONAL ACTIVITIES**

#### **Institutional Administrative Appointments**

2007–2015	Member, Johns Hopkins University Division of Gastroenterology & Hepatology Fellowship Selection Committee
2010–2011	Member, Johns Hopkins University Department of Medicine Safety Committee
2013–2016	Member, Johns Hopkins University School of Medicine, Educational Policy and Curriculum Committee
2014–2016	Member, Johns Hopkins University Division of Gastroenterology & Hepatology, Leadership/Executive Committee
2016–present	Member, Stanford University Division of Gastroenterology & Hepatology Fellowship Selection Committee

### **Editorial Activities**

#### **Editorial Board Appointments**

2011–present	Editorial board member, Scientific World Journal
2013–present	Editorial board member, Current Treatment Options in Gastroenterology
2014–present	Section Editor, Esophagus, Current Gastroenterology Reports

**Journal Peer Review Activities**

2006–present Ad hoc peer reviewer, Diseases of the Esophagus  
 2008–present Ad hoc peer reviewer, American Journal of Geriatric Pharmacology  
 2008–present Ad hoc peer reviewer, Clinical Therapeutics  
 2008–present Ad hoc peer reviewer, Immunobiology  
 2008–present Ad hoc peer reviewer, Neurogastroenterology & Motility  
 2009–present Ad hoc peer reviewer, Digestive Diseases and Sciences  
 2009–present Ad hoc peer reviewer, Dysphagia  
 2010–present Ad hoc peer reviewer, Archives of Medical Science  
 2010–present Ad hoc peer reviewer, Journal of Clinical Gastroenterology  
 2010–present Ad hoc peer reviewer, Journal of Gastroenterology & Hepatology  
 2011–present Ad hoc peer reviewer, Arthritis & Rheumatism  
 2011–present Ad hoc peer reviewer, Clinical Gastroenterology & Hepatology  
 2011–present Ad hoc peer reviewer, Current Therapeutic Research  
 2011–present Ad hoc peer reviewer, Gender Medicine  
 2011–present Ad hoc peer reviewer, International Journal of Rheumatology  
 2012–present Ad hoc peer reviewer, Expert Review of Gastroenterology & Hepatology  
 2012–present Ad hoc peer reviewer, Journal of Neurogastroenterology & Motility  
 2012–present Ad hoc peer reviewer, Postgraduate Medicine  
 2012–present Ad hoc peer reviewer, World Journal of Gastroenterology  
 2014–present Ad hoc peer reviewer, Annals of Palliative Medicine  
 2014–present Ad hoc peer reviewer, American Journal of Physiology – Gastrointestinal and Liver Physiology  
 2015–present Ad hoc peer reviewer, Gastroenterology  
 2015–present Ad hoc peer reviewer, American Journal of the Medical Sciences  
 2015–present Ad hoc peer reviewer, Journal of Gastroenterology  
 2016–present Ad hoc peer reviewer, American Journal of Gastroenterology  
 2016–present Ad hoc peer reviewer, Annals of the New York Academy of Sciences  
 2016–present Ad hoc peer reviewer, Autonomic Neuroscience  
 2016–present Ad hoc peer reviewer, Clinical and Translational Gastroenterology

**Advisory Committees, Review Groups/Study Sections**

2012 Member, Scientific advisory board, ProStrakan  
 2015 Member, Scientific advisory board, Teva

**Professional Societies**

1996–present Member, American Medical Association (AMA)  
 2000–present Member, American College of Physicians (ACP)  
 Fellow (2015)  
 2002–present Diplomat, American Board of Internal Medicine (ABIM)  
 2004–present Member, American Gastroenterological Association (AGA)  
 2013-2014 Councilor for Clinical Practice Section of the AGA Institute Council  
 2015–present Nominating Committee, Neurogastroenterology & Motility (NGM)  
 2016–2019 Member, Graduate Training Exam Subcommittee  
 2004–present Member, American College of Gastroenterology (ACG)  
 2013–2019 Member, Educational Affairs Committee  
 2005–present Member, American Society for Gastrointestinal Endoscopy (ASGE)  
 2005–present Member, American Neurogastroenterology & Motility Society (ANMS)  
 2014 Organizing committee (chair), Annual Clinical Course  
 2015 Site director (Johns Hopkins), ANMS Clinical Training Program  
 2006–present Member, International Society for Diseases of the Esophagus (ISDE)  
 2010–present Member, HRM Consensus Group  
 2011–present Member, Faculty of 1000

**Session Chair**

2010 Esophageal and oropharyngeal motility disorders: topic forum, AGA, Digestive Disease Week (New Orleans, LA)  
 2012 The role of HRM in clinical practice: symposium, OESO 11<sup>th</sup> World Congress (Como, Italy)  
 2013 New pharmacological treatments for motility disorders: research forum, AGA, Digestive Disease Week (Orlando, FL)  
 2014 Esophageal dysmotility (abstract review committee chair), AGA, Digestive Disease Week (Chicago, IL)

- 2014 Is it really IBS? Evidence for missed organic disorders in functional bowel disorders, AGA, Digestive Disease Week (Chicago, IL)
- 2014 Oropharyngeal dysphagia: research forum, AGA, Digestive Disease Week (Chicago, IL)
- 2014 Organizing committee (chair), Annual Clinical Course, American Neurogastroenterology and Motility Society (Baltimore, MD)
- 2015 Esophageal dysmotility - from bench to bedside: research forum, AGA, Digestive Disease Week (Washington, DC)
- 2016 Novel diagnosis and treatments for functional dyspepsia, bloating and GERD, AGA, Digestive Disease Week (San Diego, CA)
- 2016 Esophageal abstracts (abstract review committee chair), ACG, ACG Annual Scientific Meeting (Las Vegas, NV)
- 2016 Esophageal dysmotility (abstract review committee vice chair), AGA, Digestive Disease Week (Chicago, IL)

## RECOGNITION

### Awards/Honors

- 1995 *Phi Beta Kappa*, Brown University
- 1995 *Magna Cum Laude*, History departmental honors, Brown University
- 1996 P&S Dean's Fellowship, Columbia University
- 1999 *Alpha Omega Alpha*, Columbia University
- 2005 Osler housestaff teaching award (given to one fellow per year in the Department of Medicine as selected by medical housestaff)
- 2006 DDW ASGE Presidential Plenary Session Presenter
- 2006 North American Conference of Gastroenterology Fellows award for abstract entitled "An endoscopically-implantable device stimulates the lower esophageal sphincter on-demand by remote control in a canine model", American College of Gastroenterology
- 2006 Young investigator travel award, Neurogastroenterology and Motility 2006 Joint International Conference
- 2006 Centocor Educational Grant, American College of Gastroenterology Conference
- 2007 North American Conference of Gastroenterology Fellows award for abstract entitled "A novel implantable on-demand microstimulator can increase resting anal sphincter pressure: a pilot study in a porcine model", American College of Gastroenterology
- 2007 Centocor Educational Grant, William Steinberg's Board Review in Gastroenterology, Centocor
- 2008 Don Castell Award Recipient, AGA
- 2008 Barker Firm Faculty Attending
- 2008 GI Faculty Teaching Award (given to one faculty member per year selected by the GI fellows)
- 2011 Turock Clinician Award
- 2015 Miller-Coulson Academy of Clinical Excellence, member  
*This is an honor society at Johns Hopkins University to recognize clinical excellence; at the time my initiation, the society had only 50 members total across all departments of the University*
- 2015 Johns Hopkins University Alumni Association Award for Excellence in Teaching  
*Given to one faculty member per year in the entire School of Medicine*

### Invited Talks/National

- 2008 "Diagnosing and treating the IBS patient in 2008," St. Mary's Regional Medical Center Grand Rounds, Lecturer (Grand Junction, CO)
- 2010 "The evaluation & treatment of GERD," St. Mary's Regional Medical Center Grand Rounds, Lecturer (Grand Junction, CO)
- 2010 "The GI motility laboratory: what tests to do?" Digestive Disease Week 2010, Lecturer (with Henry Parkman as co-presenter), Lecturer (New Orleans, LA)
- 2010 "EGJ anatomy & physiology on HRM", OESO 10<sup>th</sup> World Congress, Lecturer, World Organization for Specialized Studies on Diseases of the Esophagus (Boston, MA)
- 2011 "Constipation in 2011: classification, diagnosis & treatment", St. Mary's Regional Medical Center Grand Rounds, Lecturer (Grand Junction, CO)
- 2011 "New ways to diagnose GI motility disorders", Digestive Disease Week 2011, Lecturer (with Henry Parkman co-presenter), AGA (Chicago, IL)
- 2011 "Constipation: you say there is more than one kind of constipation?" Practical Proctology: Symposium for the Non-Surgeon, Lecturer, Washington Hospital Center (Washington, DC)
- 2011 "Are there appropriate tests for constipation? Any imaging studies?" Practical Proctology: Symposium for the Non-Surgeon, Lecturer, Washington Hospital Center (Washington, DC)
- 2011 "Unscramble the laxative shelf at the drug store", Practical Proctology: Symposium for the Non-Surgeon, Lecturer, Washington Hospital Center (Washington, DC)

- 2011 “GI Tract in Scleroderma”, Scleroderma Foundation African-American Patient Education Day, Lecturer, Scleroderma Foundation (Baltimore, MD)
- 2012 “A patient with nausea & vomiting,” Digestive Disease Week 2012, Lecturer (San Diego, CA)
- 2012 “Scleroderma bowel disease: from top to bottom,” American College of Rheumatology Annual Scientific Meeting, Lecturer (Washington, DC)
- 2013 “GI Motility Research & Future Needs”, Digestive Disease National Coalition Annual Meeting, Lecturer (Washington, DC)
- 2013 “GI Manifestations of Osteogenesis Imperfecta”, Managing Clinical Issues in Osteogenesis Imperfecta Conference, Lecturer, Osteogenesis Imperfecta Foundation (Baltimore, MD)
- 2013 “Eosinophilic esophagitis: a gastroenterologist’s perspective”, American College of Allergy, Asthma and Immunology Annual Scientific Meeting, Lecturer (Baltimore, MD)
- 2014 “Gastrointestinal manifestations of scleroderma”, Susan Marie Scleroderma Foundation Annual Symposium, Lecturer (Naples, FL)
- 2014 “What is new in the diagnosis of esophageal motility in 2014”, American Neurogastroenterology and Motility Society Annual Clinical Meeting, Lecturer (Baltimore, MD)
- 2015 “Constipation in 2015: classification, diagnosis & treatment”, American Urogynecologic Society Fellows Virtual Forum Lecture, Lecturer, American Urogynecologic Society (Baltimore, MD)
- 2015 “How to approach gastroparesis in 2015”, GI Grand Rounds, Lecturer, Washington University Division of Gastroenterology (St. Louis, MO)
- 2015 “Achalasia: incidence & pathogenesis”, Digestive Disease Week 2015, Lecturer (Washington, DC)
- 2015 “Eosinophilic esophagitis: effect on esophageal function, how to evaluate & how to treat”, American Neurogastroenterology and Motility Society Annual Clinical Meeting, Lecturer (Chicago, IL)
- 2015 “GI motility & EndoFlip”, Chesapeake Society of Gastroenterology Nurses & Associates Annual Fall Education Conference, Lecturer (Annapolis, MD)
- 2016 “Manometry and pH/impedance testing”, American College of Gastroenterology Annual 2<sup>nd</sup> Year Fellows Course, Lecturer, American College of Gastroenterology (Washington, DC)
- 2016 “Problems at both ends: case studies in chronic vomiting & diarrhea”, Annual Meeting of the Society of Hospital Medicine, Lecturer, Society of Hospital Medicine (San Diego, CA)
- 2016 “Dysmotility & autoimmune disease”, American College of Rheumatology State-of-the-Art Clinical Symposium, Lecturer, American College of Rheumatology (Chicago, IL)

**Invited Talks/International**

- 2010 “Eosinophilic esophagitis: pathophysiology, diagnosis & management,” American Academy of Otolaryngic Allergy Masters Course: GI-Mediated Disease for the Otolaryngologist, Lecturer (Lake Louise, Canada)
- 2010 “Celiac disease: pathophysiology, diagnosis and management,” American Academy of Otolaryngic Allergy Masters Course: GI-Mediated Disease for the Otolaryngologist, Lecturer (Lake Louise, Canada)
- 2010 “H. pylori and gastritis,” American Academy of Otolaryngic Allergy Masters Course: GI-Mediated Disease for the Otolaryngologist, Lecturer (Lake Louise, Canada)
- 2010 “GERD: medical management,” American Academy of Otolaryngic Allergy Masters Course: GI-Mediated Disease for the Otolaryngologist, Lecturer (Lake Louise, Canada)
- 2010 “GI tract involvement,” 1<sup>st</sup> Joint Training Program on Systemic Autoimmune Rheumatic Diseases, Lecturer, University of Athens & Johns Hopkins University (Athens, Greece)
- 2011 “GERD refractory to medical management,” Johns Hopkins 3<sup>rd</sup> Annual Punta Pacifica Symposium: Update in Gastroenterology and Urology, Lecturer, Hospital Punta Pacifica & Johns Hopkins Medicine International University (Panama City, Panama)
- 2011 “When gas becomes a problem,” Johns Hopkins 3<sup>rd</sup> Annual Punta Pacifica Symposium: Update in Gastroenterology and Urology, Lecturer, Hospital Punta Pacifica & Johns Hopkins Medicine International (Panama City, Panama)
- 2012 “Does ambulatory high-resolution manometry (HRM) with or without impedance have a role in clinical esophagology?” OESO 11<sup>th</sup> World Congress, World Organization for Specialized Studies on Diseases of the Esophagus, Lecturer (Como, Italy)
- 2012 “What is the role of high-resolution manometry in non-cardiac chest pain?” OESO 11<sup>th</sup> World Congress, World Organization for Specialized Studies on Diseases of the Esophagus, Lecturer (Como, Italy)
- 2012 “Esophageal function: evaluation of reflux mechanisms”, OESO 11<sup>th</sup> World Congress, World Organization for Specialized Studies on Diseases of the Esophagus, Lecturer (Como, Italy)
- 2013 “Gastroparesis: an update on pathogenesis and therapy 2013,” From Traditional Therapies to State of the Art Biomedicine: Using Integrative Medicine to Manage Common Gastrointestinal Disorders, Lecturer, Clemenceau Medical Center & Johns Hopkins Medicine International (Beirut, Lebanon)
- 2013 “Visceral pain: from theory to practice,” From Traditional Therapies to State of the Art Biomedicine: Using Integrative Medicine to Manage Common Gastrointestinal Disorders, Lecturer, Clemenceau Medical Center & Johns Hopkins Medicine International (Beirut, Lebanon)

- 2013 “Management of gastroparesis in 2013,” Gastroenterology Grand Rounds, Lecturer, University of Stellenbosch (Stellenbosch, South Africa)
- 2013 “How to manage refractory reflux,” The Annual Meeting of the Venezuelan Gastroenterology Society, Lecturer, Venezuelan Gastroenterology Society (Caracas, Venezuela)
- 2013 “Updates in gastroparesis,” The Annual Meeting of the Venezuelan Gastroenterology Society, Lecturer, Venezuelan Gastroenterology Society (Caracas, Venezuela)
- 2013 “The management of dysphagia in 2013,” The Annual Meeting of the Venezuelan Gastroenterology Society, Lecturer, Venezuelan Gastroenterology Society (Caracas, Venezuela)
- 2013 “The diagnosis and management of irritable bowel syndrome,” The Annual Meeting of the Venezuelan Gastroenterology Society, Lecturer, Venezuelan Gastroenterology Society (Caracas, Venezuela)
- 2014 “Pathophysiology, diagnosis and treatment of gastroesophageal reflux,” Jornada Patologia Digestiva en La Serena, Lecturer, Sociedad de Cirujanos de Chile and Universidad Catolica del Norte (La Serena, Chile)
- 2014 “Achalasia: diagnosis and treatment,” Jornada Patologia Digestiva en La Serena, Lecturer, Sociedad de Cirujanos de Chile and Universidad Catolica del Norte (La Serena, Chile)
- 2014 “Noncardiogenic chest pain,” Gastroenterology Congress of Chile, Lecturer, Chile Society for Gastroenterology (Santiago, Chile)
- 2014 “GERD refractory to antacid therapy,” Gastroenterology Congress of Chile, Lecturer, Chile Society for Gastroenterology (Santiago, Chile)
- 2014 “Diagnosis and management of eosinophilic esophagitis,” Gastroenterology Congress of Chile, Lecturer, Chile Society for Gastroenterology (Santiago, Chile)
- 2014 “Review of the new motility tests,” Gastroenterology Congress of Chile, Lecturer, Chile Society for Gastroenterology (Santiago, Chile)
- 2014 “Diagnosis and management of GERD (including bariatrics),” Gastroenterology Congress of Chile, Lecturer, Chile Society for Gastroenterology (Santiago, Chile)
- 2014 “Clinical Cases from Johns Hopkins Hospital,” Gastroenterology Congress of Chile, Lecturer, Chile Society for Gastroenterology (Santiago, Chile)
- 2015 “Pathophysiology, diagnosis & treatment of gastroesophageal reflux,” 128<sup>th</sup> Anniversary Medical Congress, Lecturer, Sri Lanka Medical Association (Colombo, Sri Lanka)
- 2015 “Does the presence of esophageal outflow obstruction on HRM impact surgical decision making?” OESO 13<sup>th</sup> World Congress, World Organization for Specialized Studies on Diseases of the Esophagus, Lecturer (Monte Carlo, Monaco)
- 2015 “Use of esophageal manometry in the workup of failed fundoplication,” OESO 13<sup>th</sup> World Congress, World Organization for Specialized Studies on Diseases of the Esophagus, Lecturer (Monte Carlo, Monaco)
- 2015 “Update on GI motility disorders: diagnosis & treatment,” International Symposium in Gastroenterology & Hepatology, Lecturer, Hangzhou Normal University (Hangzhou, China)
- 2016 “GI tract in scleroderma,” Patient World Scleroderma Congress, Lecturer, Federation of European Scleroderma Associations (Lisbon, Portugal)
- 2016 “Upper and lower gastrointestinal involvement in scleroderma,” 4<sup>th</sup> Systemic Sclerosis World Congress, Lecturer, 4<sup>th</sup> Systemic Sclerosis World Congress (Lisbon Portugal)