



**MICHIGAN MEDICINE**  
UNIVERSITY OF MICHIGAN

# the GI Digest

Department of Internal Medicine, Division of Gastroenterology and Hepatology

Spring 2019 • Volume 14 • Issue 1

## Faculty and Fellows in the News at DDW 2019

### Chief Observations



Michigan Medicine Gastroenterology and Hepatology faculty, fellows, research scientists, and mid-level providers will converge at Digestive Disease Week in San Diego, CA from May 18–21, 2019. Recognized as one of the top 50 medical meetings by HCEA, Digestive Disease Week® is the world's largest gathering of physicians, researchers, and industry working in the fields of gastroenterology, hepatology, endoscopy, and gastrointestinal surgery. DDW provides an unparalleled opportunity for our Division to showcase to our peers throughout the world the many accomplishments we have achieved over the past year. Our strong tradition of

leadership and recognition at DDW continues this year.

I am proud to announce that Dr. John Allen will receive the prestigious Julius Friedenwald Medal, the AGA highest honor. Dr. Bishr Omary joined the AGA Institute Governing Board as president-elect in June 2019. He will serve as AGA president in 2020–2021. Dr. Costas Lyssiotis will receive the Young Investigator Award in Basic Science for outstanding research achievements. We are also very proud of the many division faculty serving in leadership roles to organize this year's DDW program. At the AGA Institute Council level, Dr. Peter Higgins is the vice chair of the Immunology, Microbiology & Inflammatory Bowel Diseases Section; Dr. John Kao is the chair of the Esophageal, Gastric, & Duodenal Disorders Section; Dr. Linda Samuelson is the chair of the Cellular & Molecular Gastroenterology Section; and Dr. John Wiley is the chair of the Neurogastroenterology & Motility Section. At the AGA Institute committee level, Dr. Megan Adams is the chair of the Quality Measures Committee, and Dr. John Allen is editor in chief of *GI & Hepatology News*. Dr. John Kao is serving as a Mentor for the AGA Future Leaders Program.

The Division again has a strong showing at DDW, reflected in the number of presentations by our faculty and fellows. We have 75 platform presentations – notably, 2 state-of-the-art lectures and 3 distinguished abstracts – and 70 posters, of which 8 are posters of distinction. The wide range of important topics that will be covered include stem cell biology, epithelial cell differentiation and morphogenesis, visceral hypersensitivity, gastroparesis, gut microbiome, inflammatory bowel disease, gastric metaplasia, intestinal mucosal inflammation and fibrosis, colon and pancreatic cancer, and NAFLD. Many of our faculty will serve as symposium, forum, and poster tour moderators, participate in panel discussions, Breakfast Connections, Meet the Professor Luncheons, and Interactive Education sessions. Our faculty also conduct AGA Postgraduate Courses and ASGE Hands On Workshops, as well as participate in ASGE video plenary sessions.

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### DDW 2019 Receptions

#### GI and Hepatology Alumni Reception

Saturday, May 18  
7:00 – 10:00 PM  
Hilton San Diego Bayfront Hotel  
Aqua Room 300

#### AGA Awards Ceremony

Sunday, May 19, 2019  
5:30 – 7:30 PM  
Hilton San Diego Bayfront Hotel  
Indigo Ballroom

#### ASGE Crystal Awards

Sunday, May 19  
6:15 PM • reception  
7:30 PM • dinner and program  
The US Grant Hotel

## Distinguished Abstracts and State-of-the-Art Lectures

### Distinguished Abstract Plenary

Immunology,  
Microbiology &  
Inflammatory Bowel  
Diseases

Sunday, May 19, 2019

4:48 PM

20BCD SDCC

### Anti-tumor necrosis factor therapy is not associated with post-operative infection: Results from prospective cohort of ulcerative colitis and Crohn's disease patients undergoing surgery to identify risk factors for post-operative infection I (PUCCINI)

Benjamin L. Cohen, Phillip Fleshner, Sunanda V. Kane, Hans H. Herfarth, Nicole Palekar, Francis A. Farraye, Jonathan A. Leighton, Jeffrey Katz, Russell D. Cohen, Mark E. Gerich, Raymond K. Cross, **Peter D. Higgins**, Andrew Tinsley, Sarah C. Glover, Corey A. Siegel, Jaime L. Bohl, Heba Iskandar, Samantha Raymond, Ruiqi Huang, Mayte Suarez-Farinas, Bruce E. Sands

**Peter Higgins** participated in a multi-center prospective study sponsored by the Crohn's and Colitis Foundation Clinical Research Alliance to determine if anti-TNF exposure is an independent risk factor for post-op infection after intra-abdominal surgery. 955 IBD patients from 17 sites undergoing intra-abdominal surgery were enrolled prospectively. 40% of 955 IBD patients had pre-op anti-TNF exposure, and among these, 69% had detectable anti-TNF levels. Any infection (12.3% vs 12.7%) rates were similar in anti-TNF-exposed and unexposed patients, respectively, demonstrating that pre-op use of anti-TNF drugs, as determined by history or drug levels, was not an independent risk factor for post-op infections in a large prospective multi-center cohort.

### Distinguished Abstract Plenary

Neurogastroenterology  
& Motility

Monday, May 20, 2019

4:49 PM

31A SDCC

### Gut dysbiosis contributes to visceral hypersensitivity in irritable bowel syndrome via regulation of the levels of resolvin D1 in the colonic mucosa

**Gintautas Grabauskas**, Xiaoyin Wu, Karissa D. Kao, **Chung Owyang**

**Chung Owyang** and **Gintas Grabauskas** reported for the first time that gut dysbiosis contributes to visceral hypersensitivity in IBS by regulating the resolvin D1 (RvD1) level in the colonic mucosa. Resolvins are a group of novel endogenous lipid mediators derived from SL-3 polyunsaturated fatty acids that generates anti-inflammatory and analgesic effects in many animal models. Colonic biopsies and fecal samples were obtained from 30 IBS-D patients and 30 healthy controls. MiSeq Illumina analysis of stool samples showed evidence of gut dysbiosis in IBS patients. ELISA data showed a 50% decrease in RvD1 in IBS-D colonic biopsies compared to healthy controls. To provide direct evidence that the gut microbiome regulates resolvin levels in the colonic mucosa, it was demonstrated that the colonic mucosal RvD1 level was 500% higher in germ-free mice. In germ-free mice reconstituted with human fecal microbiota, the colonic mucosal RvD1 dropped to levels similar to non-germ-free mice. Interestingly, pain behavior studies showed that germ-free mice failed to develop visceral hypersensitivity in response to infusion of IBS-D fecal supernatant which caused visceral hypersensitivity in germ-free mice reconstituted with normal human fecal microbiota. These findings indicate that the gut microbiota regulates the level of RvD1 in the colonic mucosa, which in turn modulates colonic sensitivity. In IBS patients with gut dysbiosis, the decreased levels of mucosal RvD1 may contribute to visceral hypersensitivity.

### Distinguished Abstract Plenary

Esophageal, Gastric &  
Duodenal Disorders

Tuesday, May 21, 2019

8:48 AM

9 SDCC

### Effects of anti-*Helicobacter pylori* therapy on incidence of autoimmune diseases, including inflammatory bowel diseases

Kun-Der Lin, Guei-Fen Chiu, Akbar K. Waljee, Stephanie Y. Owyang, Mohamad El-Zaatari, Shrinivas Bishu, Helmut Grasberger, Min Zhang, Deng-Chyang Wu, **John Y. Kao**

*Helicobacter pylori* (HP) induces host immune tolerance and is associated with a lower risk of developing immune-mediated disorders. **John Kao** and his colleagues from Taiwan utilized the National Health Insurance Research database in Taiwan where the prevalence of HP approaches 80%, to determine the impact of HP therapy on the risk of developing autoimmune disorders and IBD. Of the 1 million population sampled, 79,181 eligible patients were included in the study. It was found that treatment of HP infection is associated with a significant increase in the risk for autoimmune disease, including IBD and in overall mortality. The increased risk is not likely to be explained by antibiotic therapy alone as control patients treated with urinary tract infections did not show an increased risk. This study highlights the potential immunomodulatory benefits of HP infection.

### State-of-the-Art Lecture

Entero-Endocrine Cells:  
Key Regulators of Food  
Intake and Glucose  
Metabolism

Sunday, May 19, 2019

10:50 AM

3 SDCC

### A novel R-spondin 1/POMC neurocircuit in the hypothalamus is activated by insulin to regulate thermogenesis in brown adipose tissue

**Ji-Yao Li**, Xiaoyin Wu, **Chung Owyang**

**Ji-Yao Li** in the **Chung Owyang** laboratory identified a novel R-spondin1/POMC neurocircuit in the hypothalamus which is activated by insulin to regulate thermogenesis in brown adipose tissue (BAT). Obesity develops when food intake chronically exceeds total energy expenditure. BAT has a remarkable capacity to dissipate energy and produce heat via brown fat-specific uncoupling protein 1 (UCP1) in mitochondria. Using a multidisciplinary approach including in situ hybridization, c-fos expression immunocytochemistry siRNA technologies and single nerve fiber recordings, **Chung Owyang's** laboratory determined for the first time that insulin. An important adiposity signal that informs the brain about the state of stored energy, activates the RSP01/POMC neurocircuit in the hypothalamus to stimulate stellate ganglion, which in turn enhances BAT thermogenesis, resulting in negative energy balances. Most anti-obesity medications act to decrease food intake, often with minimal success or serious side effects. This newly identified novel pathway may be targeted pharmacologically to increase energy expenditures and induce weight loss.

### State-of-the-Art Lecture

Nutrigenomics and  
Personalized Nutrition in  
Gastroenterology: Ready  
for Prime Time?

Sunday, May 19, 2019

2:06 PM

24ABC SDCC

### Is sucrose the sixth FODMAP in a subset of patients with irritable bowel syndrome with diarrhea and sucrose isomaltase deficiency?

**Shanti L. Eswaran**, Tenghao Zheng, Mauro D'Amato, **William D. Chey**

Up to 60–70% of IBS patients may respond to elimination diets such as low FODMAP. **Shanti Eswaran** and **William D. Chey** hypothesized that IBS patients who are symptomatic carriers of sucrose-isomaltase (SI) deficiency or recessive mutations and variants in the SI gene would be less likely to benefit from standard dietary recommendations for IBS. Salivary samples from the IBS patients included in a previously published randomized controlled trial of the low FODMAP diet or modified National Institute for Health and Care Excellence (NICE) diet were analyzed for SI genotype. They showed that SI deficiency or recessive mutations in IBS patients were associated with a 3–4-fold reduction in the likelihood of responding to dietary approaches that restrict the intake of carbohydrates, particularly FODMAP. Hence, IBS-D patients who do not respond to dietary interventions like low FODMAP, may be SI deficient, and a different therapeutic approach should be considered.



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## DDW 2019 Awards and Recognition



We are proud to announce the following award recipient from the University of Michigan Division of Gastroenterology and Hepatology who will be recognized at DDW 2019.

### **John I. Allen, MD, MBA, AGAF**

#### **Julius Friedenwald Medal**

American Gastroenterological Association

AGA bequeaths its highest honor, the Julius Friedenwald Medal, to John I. Allen, MD, MBA, AGAF, for his incredible contributions to the field of gastroenterology and AGA over several decades. The Julius Friedenwald Medal, presented annually since 1941, recognizes a physician for lifelong contributions to the field of gastroenterology.

Dr. Allen is internationally-renowned for bringing unique and critical knowledge about health care delivery and health care economics to the field of gastroenterology, as well as for his decades of AGA leadership. His experience is unique within the national gastroenterology community, encompassing private practice, non-academic health systems and leadership within two academic medical centers. As AGA Institute President, he led the development of AGA's five-year strategic plan and made AGA a national player at the federal, state and local levels during a time of massive health care delivery transformation. Dr. Allen is a clinical professor of medicine in the Division of Gastroenterology and Hepatology and chief clinical officer of the University of Michigan Medical Group at the University of Michigan Medical School.

## DDW 2019 Awards and Recognition



We are proud to announce the following news from the AGA.

### **M. Bishr Omary, MD, PhD, AGAF**

#### **Vice President**

American Gastroenterological Association

**Bishr Omary, MD, PhD, AGAF, will sit on the AGA Institute Governing Board as president-elect beginning June 2019. He will serve as president in 2020–2021.**

Dr. Omary is among a handful of international leaders in the fields of GI biology and physiology. His scientific research contributions span a wide range of topics, particularly liver and pancreas biology and disease perspectives, and include basic, translational and clinical studies.

“Bishr is an extraordinarily strategic thinker who is highly committed to the clinical, research and education missions of the AGA,” said Timothy C. Wang, MD, AGAF, chair of the AGA nominating committee, former AGA president and chief of digestive and liver diseases at Columbia University.

“I am humbled and honored, beyond words, to be selected for this role. I look forward to working steadfastly and collaboratively to serve our community at large,” Dr. Omary stated when informed of his selection.

Throughout his academic career, Dr. Omary has come to be known as an outstanding mentor, a very gifted and dedicated physician–scientist, and someone who works extraordinarily hard on behalf of his trainees, mentees and faculty.

An AGA member since his days as a GI fellowship trainee, Dr. Omary has been an influential figure in the organization. He has served on the Education and Training, Nominating, Research Policy and Publications Committees, and is a regular faculty at the AGA Academic Skills Workshop. He served as editor-in-chief of *Gastroenterology*, and as an advisory board member of the new AGA journal, *Cellular and Molecular Gastroenterology and Hepatology*.

After receiving his undergraduate degree in chemistry from George Mason University in 1976, Dr. Omary went on to earn his PhD in 1980 in chemistry from the University of California (UC), San Diego. In 1984, Dr. Omary received his medical degree from the University of Miami, Florida, followed by residency in internal medicine at UC Irvine and fellowship in gastroenterology at UC San Diego. Prior to moving to the University of Michigan in 2008, Dr. Omary began his independent academic career at Stanford University where he spent 19 years that included serving as chief of the Division of Gastroenterology and Hepatology. At Michigan Medicine he has served as chair of the Department of Molecular and Integrative Physiology, then as Chief Scientific Officer and Executive Vice Dean for Research and Special Advisor on Research for the University of Michigan Medical School.





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## DDW 2019 Awards and Recognition



We are proud to announce the following award recipient from the University of Michigan Division of Gastroenterology and Hepatology and the Department of Molecular & Integrative Physiology who will be recognized at DDW 2019.

### **Costas Lyssiotis, PhD**

#### **AGA Young Investigator Award in Basic Science**

The AGA Young Investigator Award recognizes two young investigators, one in basic science and one in clinical science, for outstanding research achievements.

AGA honors Costas A. Lyssiotis, PhD, with the Young Investigator Award in Basic Science. His research, work ethic and innovative approaches have made Dr. Lyssiotis a distinguished leader in pancreatic cancer. His work has broad implications for harnessing the power of the immune system to treat the disease and his laboratory is working to develop new drug therapies that target a pancreatic cancer metabolism-specific enzyme.



### **John Kao, MD**

#### **AGA Future Leaders Program • Mentor for the Class of 2020**

The Future Leaders Program provides a pathway within the organization for selected participants to network, connect with mentors, develop leadership skills and learn about AGA's governance and operations while advancing their careers and supporting the profession.



### **Allison Schulman, MD**

#### **ASGE Honorable Mention**

American Society for Gastrointestinal Endoscopy (ASGE)

Allison Schulman, MD received an Honorable Mention for her video entitled *Endoscopic closure of a large perforation during pneumatic dilation of a sleeve gastrectomy stricture*. It will be featured at the ASGE Learning Center at DDW.

## Connect on Social Media



**Find us on Facebook**

**U-M Gastroenterology and Hepatology Alumni Connection**

**@GIHepAlumni**



**Follow us on Twitter**

**@UMichGIHep**



## DDW Awards • 2008–2018

### DDW 2008

**Richard J. Saad, MD, MS**

AGA Research Scholar Award

**Michael L. Volk, MD, MSc**

AGA Research Scholar Award

### DDW 2009

**Anna S. Lok, MD, FRCP**

**Juanita L. Merchant, MD, PhD**

AGA Foundation for Digestive Health and Nutrition  
Outstanding AGA Women in Science Award

### DDW 2010

**Tadataka Yamada, MD**

AGA Distinguished Mentor Award

### DDW 2011

**Chung Owyang, MD**

AGA Distinguished Mentor Award

**Joel H. Rubenstein, MD**

GRG/AGA Young Investigator Award in Clinical Science

**James M. Scheiman, MD**

AGA Institute Council Section Mentor Award  
Esophageal, Gastric & Duodenal Disorders Section  
ASGE Senior Investigator Mentoring Award

**Andrea Todisco, MD**

AGA Research Foundation  
R. Robert and Sally Funderburg Research Scholar Award in  
Gastric Biology Related to Cancer Biology

### DDW 2012

**John Del Valle, MD**

AGA Distinguished Educator Award

**Grace H. Elta, MD**

AGA Institute Council Section Mentor Award  
Imaging and Advanced Technology Section

**Timothy T. Nostrant, MD**

AGA Distinguished Clinician Award

### DDW 2013

**Grace H. Elta, MD**

AGA Distinguished Clinician Award  
ASGE Distinguished Educator Award

**Chung Owyang, MD**

AGA Julius Friedenwald Medal

### DDW 2014

**Joseph C. Kolars, MD**

AGA Distinguished Educator Award

**Richard S. Kwon, MD, MS**

AGA–Covidien Research and Development Pilot Award in  
Technology

**Juanita L. Merchant, MD, PhD**

AGA Institute Council Section Mentor Award  
Regulatory Peptides, Cell Signaling & Molecular Biology Section

**M. Bishr Omary, MD, PhD**

AGA Institute Council Section Mentor Award  
Liver and Biliary Section

**Linda C. Samuelson, PhD**

AGA Institute Council Morton I. Grossman Lectureship

**John A. Williams, MD, PhD**

AGA Distinguished Achievement Award

### DDW 2015

**William D. Chey, MD**

AGA Distinguished Clinician Award

**M. Bishr Omary, MD, PhD**

AGA Distinguished Mentor Award

### DDW 2016

**Anna S. Lok, MD, FRCP**

AGA William Beaumont Prize in Gastroenterology

### DDW 2017

**John M. Carethers, MD**

AGA Distinguished Mentor Award

**Hari S. Conjeevaram, MD, MS**

AGA Distinguished Educator Award

**Juanita L. Merchant, MD, PhD**

AGA Distinguished Achievement Award in Basic Science

### DDW 2018

**Grace H. Elta, MD**

ASGE Rudolf V. Schindler Award

**Deborah L. Gumucio, PhD**

AGA Institute Council Section Research Mentor Award  
Growth, Development & Child Health

### DDW 2019

**John I. Allen, MD, MBA**

AGA Julius Friedenwald Medal

**Costas A. Lyssiotis, PhD**

AGA Young Investigator Award in Basic Science



## Plenary Sessions and State-of-the-Art Lectures

### Sunday, May 19, 2019

#### AGA State-of-the-Art Lecture

10:50 AM 3

A novel R-spondin 1/POMC neurocircuit in the hypothalamus is activated by insulin to regulate thermogenesis in brown adipose tissue

Ji-Yao Li, Xiaoyin Wu, **Chung Owyang**

#### AGA State-of-the-Art Lecture

2:06 PM 24ABC

Is sucrose the sixth FODMAP in a subset of patients with irritable bowel syndrome with diarrhea and sucrose isomaltase deficiency?

Shanti L. Eswaran, Tenghao Zheng, Mauro D'Amato, **William D. Chey**

#### AGA Distinguished Abstract Plenary • Immunology, Microbiology & Inflammatory Bowel Diseases

4:48 PM 20BCD

Anti-tumor necrosis factor therapy is not associated with post-operative infection: Results from prospective cohort of ulcerative colitis and Crohn's disease patients undergoing surgery to identify risk factors for post-operative infection I (PUCCINI)

Benjamin L. Cohen, Phillip Fleshner, Sunanda V. Kane, Hans H. Herfarth, Nicole Palekar, Francis A. Farraye, Jonathan A. Leighton, Jeffrey Katz, Russell D. Cohen, Mark E. Gerich, Raymond K. Cross, **Peter D. Higgins**, Andrew Tinsley, Sarah C. Glover, Corey A. Siegel, Jaime L. Bohl, Heba Iskandar, Samantha Raymond, Ruiqi Huang, Mayte Suarez-Farinas, Bruce E. Sands

### Monday, May 20, 2019

#### AGA Presidential Plenary

10:53 AM 20BCD

Julius Friedenwald Medal presentation to **John I. Allen**

#### AGA Distinguished Abstract Plenary • Neurogastroenterology & Motility

4:49 PM 31A

Gut dysbiosis contributes to visceral hypersensitivity in irritable bowel syndrome via regulation of the levels of resolvin D1 in the colonic mucosa

**Gintautas Grabauskas**, Xiaoyin Wu, Karissa D. Kao, **Chung Owyang**

### Tuesday, May 21, 2019

#### AGA Distinguished Abstract Plenary • Esophageal, Gastric & Duodenal Disorders

8:48 AM 9

Effects of anti-*Helicobacter pylori* therapy on incidence of autoimmune diseases, including inflammatory bowel diseases

Kun-Der Lin, Guei-Fen Chiu, **Akbar K. Waljee**, Stephanie Y. Owyang, **Mohamad El-Zaatari**, **Shrinivas Bishu**, Helmut Grasberger, Min Zhang, Deng-Chyang Wu, **John Y. Kao**

## Quick Shot Sessions

### Saturday, May 18, 2019

4:41 PM • Basic Science Quick Shots 29A

Lamin mutations in familial partial lipodystrophy point to phosphorylation as a therapeutic target

Eric W. Lin, **Graham Brady**, Raymond Kwan, Alexey Nesvizhskii, **M. Bishr Omary**

### Monday, May 20, 2019

4:12 PM • SSAT Quick Shots 28CD

Risk of medical complications following bariatric surgery is elevated in patients with immunologic diseases

Jessica Jou, **Allison R. Schulman**, Jonathan F. Finks, Amir A. Ghaferi, Oliver Adrian Varban, **Ryan W. Stidham**



## ASGE Workshops • AGA Postgraduate Courses

### Saturday, May 18, 2019

**8:00 AM** **Hall H**  
ASGE Hands On Workshop  
Bariatric Therapies  
Shelby A. Sullivan, Barham K. Abu Dayyeh, Nitin Kumar, Rachel L. Moore, Vivek Kumbhari, Eduardo Grecco, Manoel Galvao Neto, Gontrand Lopez-Nava, Marvin Ryou, **Allison R. Schulman**

**12:00 PM** **Hall H**  
ASGE Hands On Workshop  
Suturing and closures  
Nikhil A. Kumta, Prashant Kedia, **Allison R. Schulman**, Vivek Kumbhari, Nitin Kumar, Michael C. Larsen, Neil Gupta, A. Aziz Adam, Pichamol Jirapinyo, Austin L. Chiang

**3:27 PM** **20ABCD**  
AGA Postgraduate Course  
General Session  
Small intestine bacterial overgrowth: Fact and fiction  
**William D. Chey**

**4:00 PM** **6C**  
AGA Postgraduate Course  
Case-based Session  
HCC: Multidisciplinary approach to care  
Anjana A. Pillai, **Neehar D. Parikh**

## Breakfast Connections

### Monday, May 20, 2019

**6:30 – 7:45 AM** **28CD**  
Running a GI motility lab  
**Joan W. Chen**, Abraham Khan

### Tuesday, May 21, 2019

**6:30 – 7:45 AM** **26AB**  
Road to precision in diet therapy for functional bowel and motility disorders  
**Shanti L. Eswaran**

## Meet the Professor

### Tuesday, May 21, 2019

**12:30 – 1:45 PM** **25ABC**  
Meet the Professor Luncheon  
When to test for *H. pylori* antibiotic resistance  
**John Y. Kao**

## ASGE Video Sessions

### Tuesday, May 21, 2019

**9:41 AM** **6AB**  
ASGE Video Plenary - Part II  
Endoscopic reversal of vertical banded gastroplasty—novel use of electroincision  
**Jessica X. Yu, Arpan H. Patel, Ryan Law**

**9:52 AM** **6AB**  
ASGE Video Plenary - Part II  
EUS-guided gastroenterostomy to facilitate ERCP in a patient with duodenal switch anatomy  
**Ryan Law**, Amy E. Hosmer, **Arjun R. Sondhi**, Christopher Sonnenday

## Interactive Education

### Monday, May 20, 2019

**12:15 – 1:15 PM** **Sails Pavilion**  
DDW Trainee & Early Career Lounge:  
Meet the Expert  
Practical issues of career choice, contracting, and suture payment models  
**John I. Allen**

## Symposiums

### Saturday, May 18, 2019

**8:00 AM** **24ABC**  
AGA Committee-Sponsored Symposium  
How are quality measures developed by AGA?  
**Megan A. Adams**

**8:00 AM** **31A**  
AGA Committee-Sponsored Symposium  
Global *H. pylori* prevalence against IBD incidence  
**John Y. Kao**

**8:00 AM • AGA Translational Symposium** **29CD**  
The need for isogenic intestinal transplantation and biopsy banking  
**Jason Spence**

**8:22 AM** **31A**  
AGA Committee-Sponsored Symposium  
IBD and gut microbiome  
**Nobuhiko Kamada**

**8:50 AM • DDW Clinical Symposium** **32AB**  
Clinical features and management of checkpoint hepatitis  
**Robert J. Fontana**

**10:00 AM • AGA Clinical Symposium** **26AB**  
Food as the main course for the irritable bowel syndrome  
**William D. Chey**

**10:15 AM • ASGE Clinical Symposium** **4**  
Polypectomy and anticoagulants/antiplatelets: What should I do?  
**Michelle A. Anderson**

**2:00 PM • AGA Clinical Symposium** **26AB**  
Which quality metrics to track for colonoscopy and EGD  
**John I. Allen**

**2:00 PM • AGA Translational Symposium** **29CD**  
Gut microbial community function and host response in IBD  
**Nobuhiko Kamada**





# Symposiums

## Saturday, May 18, 2019 cont'd

**3:06 PM • AGA Clinical Symposium 26AB**

Use of monitored anesthesia care in the endoscopy suite

**Megan A. Adams**

**3:06 PM • AGA Clinical Symposium 3**

Therapeutic biliary EUS: Ready for prime time?

**Ryan Law**

**5:20 PM 3**

AGA Committee-Sponsored Symposium

Roundtable Discussions: 1. Unconscious/implicit bias; 2. Patient to provider bias

**Ibironke Oduyebo**

## Sunday, May 19, 2019

**8:15 AM • DDW Clinical Symposium 32AB**

What to do after negative endoscopic evaluations in obscure GI bleeding?

**James M. Scheiman**

**8:30 AM • AGA Clinical Symposium 25ABC**

Keeping to time and keeping the patient happy

**William D. Chey**

**10:00 AM • AGA Clinical Symposium 9**

Artificial intelligence for gastroenterologists: A primer

**Peter D.R. Higgins**

**10:44 AM • ASGE Clinical Symposium 7**

Overcoming benign strictures

**Michelle A. Anderson**

**10:51 AM • DDW Clinical Symposium 32AB**

Endoscopic treatment of esophageal diverticulum: What is the best approach?

**Ryan Law**

**11:05 AM • AASLD Clinical Symposium 6DE**

Non-surgical treatment of HCC and cholangiocarcinoma

**Neehar Dilip Parikh**

## Sunday, May 19, 2019 cont'd

**4:00 PM • AGA Clinical Symposium 20A**

Rodger Haggitt Gastrointestinal Pathology Society Symposium

Why mast it be so hard? Mast cell disorders of the GI tract

**Leslie B. Aldrich**

**4:20 PM • AASLD Clinical Symposium 6DE**

Elements of effective interventions

**Elliot Benjamin Tapper**

**5:17 PM • AGA Clinical Symposium 26AB**

Efficacy and safety of combined CPP-1X sulindac vs CPP-1X or sulindac alone in patients with familial adenomatous polyposis: Results from a double-blind, randomized phase III trial

Carol A. Burke, N. Jewel Samadder, Evelien Dekker, Ramona M. Lim, Francesc Balaguer, Steven Gallinger, Robert Hüneburg, Christian P. Strassburg, Patrick M. Lynch, Alfred Cohen, Samir Gupta, **Elena M. Stoffel**

## Monday, May 20, 2019 cont'd

**8:00 AM • AGA Clinical Symposium 3**

ALD: Epidemic in the young

**Elliot Benjamin Tapper**

**8:22 AM 33ABC**

AGA Committee-Sponsored Symposium

Role of probiotics in the management of GI disease: Highlights from the AGA guideline

Purna Kashyap, **Grace L. Su**

**8:30 AM 31A**

AGA Committee-Sponsored Symposium

Best of AGA at DDW in Chinese • Best basic abstracts

**John Y. Kao**

**10:00 AM • DDW Clinical Symposium 32AB**

Cholangiocarcinoma: Definitions and pathogenesis

**Nataliya Razumilava**

## Monday, May 20, 2019 cont'd

**10:00 AM 33ABC**

AGA Committee-Sponsored Symposium

The business of GI practice 101

**John I. Allen**

**2:00 PM • ASGE Clinical Symposium 7**

Training in endobariatrics therapy: Who, what, where, and how

**Allison R. Schulman**

**3:06 PM • AGA Clinical Symposium 26AB**

When to test for *H. pylori* antibiotic resistance?

**John Y. Kao**

**3:30 PM 24ABC**

AGA Committee-Sponsored Symposium

Improving vaccination adherence in inflammatory bowel diseases (poster presentation)

Ted Walker, Alex Thomas, **Kelly C. Cushing**, Michael C. Bennett, Ricardo Badillo, Gregory S. Sayuk, C. Prakash Gyawali, Deborah Rubin, Cynthia Cherfan, Parakkal Deepa, Matthew A. Ciorba, George Christophi

**4:15 PM • ASGE Clinical Symposium 6C**

Confronting unconscious bias and strategies to address it

**John M. Carethers**

## Tuesday, May 21, 2019

**8:44 AM • ASGE/SOBED Clinical Symposium 1**

Management of pancreas cysts: Current guidelines

**Grace H. Elta**

**10:00 AM • AGA Clinical Symposium 24ABC**

Overlap between food intolerances and IBS

**William D. Chey**

**2:44 PM • AGA Translational Symposium 29B**

Central and peripheral stress pathways and effects on barrier function

**John W. Wiley**



## Research and Topic Forums

### Saturday May 18, 2019

**8:00 AM** • Research Forum **7**

Prevalence and predictors of GERD and PPI-resistant GERD in the United States: results from a population-based survey of over 71,000 Americans

Sean Delshad, Christopher V. Almario, **William D. Chey**, Brennan Spiegel

**10:00 AM** • Research Forum **32AB**

Discontinuity of care among inflammatory bowel disease patients in a large integrated healthcare system

**Shirley Cohen-Mekelburg, Sameer D. Saini**, Beth Wallace, John M. Hollingsworth, Julie Bynum, Jennifer Burns, Wyndy L. Wiitala, **Peter D. Higgins, Akbar K. Waljee**

**4:59 PM** • Topic Forum **4**

Electrocautery setting does not affect efficacy and safety of endoscopic resection of large colorectal polyps

Heiko Pohl, Ian S. Grimm, Matthew T. Moyer, Muhammad K. Hasan, Douglas K. Pleskow, B. Joseph Elmunzer, Mouen A. Khashab, Omid Sanaei, Firas al Kawas, Stuart R. Gordon, Abraham Mathew, John M. Levenick, Harry R. Aslanian, Fadi Antaki, Daniel von Renteln, Seth Crockett, Amit Rastogi, Jeffrey Gill, **Ryan Law**, Puja S. Elias, Maria Pellise, Todd MacKenzie, Douglas K. Rex

**5:00 PM** • Research Forum **30**

Safety and efficacy of anti-TNF therapy in older patients with ulcerative colitis: A patient-level pooled analysis of RCT data

David Cheng, **Kelly C. Cushing**, Tianxi Cai, Ashwin Ananthakrishnan

**5:14 PM** • Topic Forum **4**

State of the art: Gender disparity in GI practice

**Grace H. Elta**

### Sunday, May 19, 2019

**8:15 AM** • Research Forum **29B**

Dietary emulsifiers reduce thermogenesis in brown adipose tissue, leading to obesity and metabolic syndrome

Weiyang Zheng, **Dabo Xu, Ji-Yao Li**, Xiaoyin Wu, Xiaomin Hu, **Merritt Gilliland, Shi-Yi Zhou, Chung Owyang**

**8:54 AM** • Research Forum **28E**

Avoidant/restrictive food intake disorder among adult gastroenterology behavioral health patients: Demographic and clinical characteristics

**Kimberly N. Harer, Christina H. Jagielski, Megan E. Riehl, William D. Chey**

**9:15 AM** • Research Forum **30**

Dietary serine regulates the integrity of intestinal mucus barrier during intestinal inflammation

Kohei Sugihara, **Nobuhiko Kamada**

**10:45 AM** • Research Forum **30**

Using deep learning for automated grading of endoscopic disease severity in ulcerative colitis

**Ryan W. Stidham**, Wenshuo Liu, **Shrinivas Bishu, Michael D. Rice, Peter D. Higgins**, Brahmajee Nallamothu, Ji Zhu, **Akbar K. Waljee**

**11:00 AM** • Research Forum **30**

Complete histologic normalization is associated with reduced risk of relapse among patients with ulcerative colitis in complete endoscopic remission

**Kelly C. Cushing**, William Tan, David H. Alpers, Vikram Deshpande, Ashwin Ananthakrishnan

**4:00 PM** • Research Forum **29B**

Autoimmune antibodies and symptoms of autoimmune disorder in gastroparesis patients

Dhruv Chaudhary, Fahad Khan, Christina Pinkston, Thomas Abell, Henry P. Parkman, Richard W. McCallum, Kenneth L. Koch,

### Sunday, May 19, 2019 cont'd

Braden Kuo, Irene Sarosiek, Linda Anh B. Nguyen, William J. Snape, **William L. Hasler**, Madhusudan Grover, Gianrico Farrugia, Pankaj J. Pasricha, James Tonascia, Frank A. Hamilton, Laura Wilson

**5:00 PM** • Research Forum **27AB**

Differential post-translational modification of polymorphic MSH3 and novel binding partner NEMO is associated with its nuclear-to-cytosol shuttling

**Stephanie Tseng-Rogenski**, Wei Zheng, **Minoru Koi**, Yang Zhang, **John M. Carethers**

**5:15 PM** • Research Forum **29B**

Characterization of pyloric tonic and phasic pyloric motor activity using expanded EndoFLIP measures before and after G-POEM for medication-refractory gastroparesis

**William L. Hasler**, Jason Baker, Lydia Watts, Nicole Bowers, Deepa Chandrasekhar, **Allen Lee, Ryan Law**

### Monday, May 20, 2019

**8:15 AM** • Research Forum **11A**

Deep learning models accurately predict development of HCC in 146,218 patients with chronic hepatitis C

George N. Ioannou, Weijing Tang, Lauren Beste, **Monica A. Konerman, Grace L. Su**, Tony Van, **Elliot B. Tapper**, Amit G. Singal, Ji Zhu, **Akbar K. Waljee**

**8:45 AM** • Research Forum **24ABC**

The age to stop endoscopic surveillance of Barrett's esophagus: A cost-effectiveness analysis

Amir-Houshang Omidvari, Minyi Lee, Steffie K. Naber, William D. Hazelton, Chung Yin Kong, Ellen Richmond, **Joel H. Rubenstein**, Georg Luebeck, John M. Inadomi, Chin Hur, Iris Lansdorp-Vogelaar



## Research and Topic Forums

### Monday, May 20, 2019 cont'd

**9:00 AM** • Research Forum **24ABC**

Overuse of surveillance endoscopy for Barrett's esophagus in individuals with limited life expectancy

**Joel H. Rubenstein**, Mohamed Noureldin, Anna Tavakkoli, Chin Hur, John M. Inadomi, Iris Lansdorp-Vogelaar, Amir-Houshang Omidvari, Elissa Ozanne, **Sameer D. Saini, Akbar K. Waljee**

**10:00 AM** • Topic Forum **4**

Gastric peroral endoscopic myotomy (G-POEM) for the treatment of refractory gastroparesis: Results from the first international prospective trial

Kia Vosoughi, Yervant Ichkhanian, Petros C. Benias, Larry S. Miller, A. Aziz Adam, Joseph Triggs, **Ryan Law**, Dalton Chaves, Alberto M. da Ponte, Peter V. Draganov, Andrey I Kotzev, Maan El Halabi, Omid Sanaei, Olaya I. Brewer Gutierrez, John E. Pandolfino, Anthony N. Kalloo, Mouen A. Khashab

**11:15 AM** • Research Forum **30**

Neutrophils restrict tumor-associated microbiota to dampen colon tumor growth and invasion

Daniel Triner, Samantha Devenport, **Yatrik M. Shah**

**2:00 PM** • Research Forum **29B**

*Escherichia coli* heat-stable toxin impairs colonic epithelial barrier function via cGMP-induced oxidative stress, apoptosis, and NF- $\kappa$ B activation

Ting Zheng, **Shi-Yi Zhou**, Sha Huang, **Jason Spence, Chung Owyang**

**2:00 PM** • Research Forum **11A**

Elevated HCC risk persists for up to 10 years after hepatitis C eradication in patients with baseline cirrhosis and elevated FIB-4 score

George N. Ioannou, Amit G. Singal, **Elliot B. Tapper, Akbar K. Waljee**, Richard K. Sterling, Jordan J. Feld, David E. Kaplan, Tamar H. Taddei, Lauren Beste, Pamela Green, Kristin Berry

### Monday, May 20, 2019 cont'd

**2:30 PM** • Topic Forum **6C**

Endoluminal functional lumen imaging probe (EndoFLIP) predicts the outcome of gastric per-oral endoscopic pyloromyotomy (G-POEM): A multicenter prospective study

Kia Vosoughi, Yervant Ichkhanian, Jérémie Jacques, Olivier Ragi, A. Aziz Adam, Joseph Triggs, Petros C. Benias, **Ryan Law**, Nicole Bowers, Olaya I. Brewer Gutierrez, Saowanee Ngamruengphong, Vivek Kumbhari, Anthony N. Kalloo, John E. Pandolfino, Mouen A. Khashab

**4:30 PM** • Topic Forum **4**

Development and initial validation of an instrument for video-based assessment of technical skill in ERCP

Badih Joseph Elmunzer, Gretchen Guiton, Catharine M. Walsh, Jose Serrano, Amitabh Chak, Steven A. Edmundowicz, **Richard Kwon**, Daniel Mullady, Georgios I. Papachristou, **Grace H. Elta**, Todd H. Baron, Patrick Yachimski, Evan L. Fogel, Jason Taylor, Vikesh Singh, Shyam Varadarajulu, Field F. Willingham, Gregory A. Cote, Peter B. Cotton, Violette C. Simon, Rebecca Spitzer, Rajesh N. Keswani, Sachin B. Wani

**4:45 PM** • Research Forum **20A**

Patricia and Ralph Giannella Lecture: All About JAK (Inhibitors) in IBD

Efficacy of upadacitinib as an induction therapy for patients with moderately to severely active ulcerative colitis, with or without previous treatment failure of biologic therapy: Data from the dose-ranging phase 2B study U-ACHIEVE

Remo Panaccione, Geert R. D'Haens, William J. Sandborn, Subrata Ghosh, Stefan Schreiber, Satoshi Tanida, Wen Zhou, Fabio Cataldi, David Pugatch, Bidan Huang, Wangang Xie, **Peter D. Higgins**

### Tuesday, May 21, 2019

**8:00 AM** • Research Forum **27AB**

Inducement of double strand breaks (DSB) triggers differential MSH3 intracellular shuttling based on a poly-alanine-PXXP polymorphism near its nuclear localization signal (NLS)

**Minoru Koi**, Mikayla Woodard, **Stephanie Tseng-Rogenski**, Satoshi Suzuki, **John M. Carethers**

**8:00 AM** • Topic Forum **4**

Experience with a novel 30mm hydrostatic balloon in esophageal dysmotility: A multicenter retrospective analysis

Joshua A. Sloan, Joseph Triggs, John E. Pandolfino, Olaya I. Brewer Gutierrez, Mohamad H. El Zein, Mohamad Dbouk, Daniella Assis, Farhan Quader, Kia Vosoughi, Yervant Ichkhanian, C. Prakash Gyawali, Ellen M. Stein, **Joel H. Rubenstein**, Mouen A. Khashab

**8:15 AM** • Research Forum **29CD**

Gut dysbiosis characterized by overabundance of Enterobacteriaceae contributes to gastric pain in diabetic gastroparesis

**Shi-Yi Zhou**, Ting Yu, Xiaoyin Wu, **Gintautas Grabauskas**, Xiaomin Hu, Sho Kitamoto, **Nobuhiko Kamada**, Nicholas Pudlo, Eric Martens, **Chung Owyang**

**8:45 AM** • Research Forum **3**

miR130b expressed by SLFN4<sup>-</sup>-MDSCs stimulates epithelial proliferation and pre-neoplastic changes

Lin Ding, Qian Li, Andres Munoz, Yana Zavros, Emmanuelle Faure, Dimitrios Iliopoulos, Jayati Chakrabarti, **Juanita L. Merchant**

**9:15 AM** • Research Forum **8**

The Bcl-2 inhibitor ABT-263 attenuates intestinal fibrosis in human intestinal organoids and the mouse *S. typhimurium* model



## Research and Topic Forums

### Tuesday, May 21, 2019 cont'd

Eva S. Rodansky, Laura Johnson, Benjamin J. Malamet, Sha Huang, Lisa Hazelwood, **Jason Spence, Peter D. Higgins**

**10:00 AM** • Research Forum **20BCD**

Efficacy and safety of mirikizumab (LY3074828) in a phase 2 study of patients with Crohn's disease

Bruce E. Sands, William J. Sandborn, Laurent Peyrin-Biroulet, **Peter D. Higgins**, Fumihito Hirai, Ruth Belin, Elisa Gomez Valderas, Debra Miller, MaryAnn Morgan-Cox, April N. Naegeli, Paul Pollack, Jay Tuttle, Toshifumi Hibi

**10:00 AM** • Research Forum **29CD**

Primary cilia transduce inflammatory and Hedgehog signaling to modulate gastrin expression and antral hyperplasia

Lin Ding, Qian Li, Andres Munoz, Milena Saqui-Salces, **Juanita L. Merchant**

**10:00 AM** • Research Forum **8**

Polygenic partial lipodystrophy contributes to nonalcoholic fatty liver disease (NAFLD) and liver fibrosis in the population

**Vincent L. Chen, Samuel K. Handelman**, Brian Halligan, Yanhua Chen, Xiaomeng Du, **Elizabeth K. Speliotes**

**10:15 AM** • Topic Forum **2**

Living on the edge - success, long-term complications, and implications following EUS-directed transgastric ERCP: A multicenter study

Thomas M. Runge, Thomas E. Kowalski, Todd H. Baron, Austin L. Chiang, Theodore James, Alexander Schlachterman, David E. Loren, Jose Nieto, Harshit S. Khara, David L. Diehl, Bradley Confer, S Vikas Kumar, Shayan S. Irani, John Nasr, Matthew R. Krafft, William Hsueh, **Ryan Law, Arpan H. Patel**, Tyler Stevens, Prabhleen Chahal, Mohammad A. Al-Haddad, Douglas K. Pleskow, Mir Fahad Faisal, Matthew T. Huggett, Arvind Trindade, Yervant Ichkhanian, Kia Vosoughi, Olaya I.

### Tuesday, May 21, 2019 cont'd

Brewer Gutierrez, Juliana Yang, Mohamad Dbouk, Saowanee Ngamruengphong, Vivek Kumbhari, Vikesh Singh, Anthony N. Kalloo, Mouen A. Khashab

**11:00 AM** • Research Forum **8**

Long-term sustainability of outcomes following completion of a structured lifestyle intervention program for patients with metabolic syndrome and non-alcoholic fatty liver disease

**Monica A. Konerman**, Min Zhang, Megan S. Joseph, Samantha Fink, **Anna Lok**, Melvyn Rubenfire

**11:12 AM** • Research Forum **9**

Cyclic Vomiting Syndrome Practice Guidelines Committee survey of cannabinoid hyperemesis syndrome criteria: Relation to published case series and individual reports

**William L. Hasler**, B. U. Li, David J. Levinthal, Sally E. Tarbell, Kathleen A. Adams, Robert Issenman, Irene Sarosiek, Safwan Jaradeh, Ravi Sharaf, Shahnaz Sultan, Christopher D. Stave, Thangam Venkatesan

**3:00 PM** • Topic Forum **6C**

Prospective, multi-center 2 year study to determine the influence of high-level disinfection alone versus ethylene oxide sterilization with high-level disinfection on endoscopic ultrasound (EUS) imaging

Shounak Majumder, Zaiyang Long, Alexander W. Hooke, Bret T. Petersen, Ferga C. Gleeson, Marco J. Bruno, John M. DeWitt, **Grace H. Elta**, Larissa L. Fujii-Lau, Victoria Gomez, Laurent Palazzo, Vanessa M. Shami, Tyler Stevens, Mark Topazian, Maurits Wiersema, Lawrence J. Berglund, Ryan J. Lennon, Joseph J. Larson, Felicity Enders, Jed Frein, Raymond A. Yates, Nicholas J. Hangiandreou, Michael J. Levy

## Moderators

### Saturday, May 18, 2019

**8:00 – 9:30 AM** **24ABC**

Committee Sponsored Symposium

Tales from the front lines: Translating "best practices" into meaningful quality measures

Moderators: **Megan A. Adams**, Jeffrey D Mosko

**8:00 – 9:30 AM** **32AB**

Clinical Symposium

GI and Liver Complications of Immunotherapies

Moderators: Michael Dougan, **Robert J. Fontana**

**9:12 AM** **24ABC**

Committee Sponsored Symposium

Tales from the front lines: Translating "best practices" into meaningful quality measures • Q&A: Panel discussion

**Megan A. Adams**, Neil Gupta, Chien-Huan Chen, David A. Leiman

**10:00 – 11:30 AM** **3**

Clinical Symposium

AGA Emmet B. Keeffe Symposium – Hepatitis A: It's a Problem Again

Moderators: **Robert J. Fontana**, Kenneth E. Sherman

**11:45 AM – 12:30 PM** **Halls C-E**

Poster Tour

GERD and Barrett's Esophagus

Moderators: **Joan W. Chen**, Karthik Ravi

**2:00 – 3:30 PM** **5**

Topic Forum

Endoscopic Bariatric and Metabolic Therapy: Expanding the Toolkit

Moderators: Mark Andrew Gromski, **Allison R Schulman**

**3:20 – 3:50 PM** **Hall E**

ASGE Learning Center

Meet the VideoGIE Top Reviewers: Learn the Art of Reviewing

Notes/Moderators: **Ryan Law**, Lisa Cassani





## Moderators

### Saturday, May 18, 2019 cont'd

**3:45 PM** **20ABCD**

AGA Postgraduate Course General Session

Panel Q & A

David A. Katzka, Linda Anh B. Nguyen,  
Michael Camilleri, **William D. Chey**

**4:00 – 5:30 PM** **6AB**

ASGE Clinical Symposium

Colorectal Cancer: New Technologies,  
New Guidelines

Moderators: **John M. Carethers**, Linda C.  
Cummings

**4:00 – 5:30 PM** **3**

AGA Committee Sponsored Symposium

Beyond Starbucks: Mitigating Bias  
Through Awareness

Moderators: Chien-Huan Chen, Miguel  
Malespin, **Ibironke Oduyebo**

### Sunday, May 19, 2019

**8:00 – 9:30 AM** **30**

AGA Research Forum

IBD: Microbiome

Moderators: Jessica Allegretti, **Nobuhiko  
Kamada**

**8:00 – 9:30 AM** **6DE**

AASLD Plenary Session

Liver Plenary I

Moderators: Jorge A Bezerra, **Grace L. Su**

**9:00 – 11:30 AM** **Hall H**

ASGE Hands-on

Customized Hands on Lab

Moderators: Neil Gupta, **Ryan Law**

**2:00 – 3:30 PM** **11A**

AASLD Research Forum

Health Services and Outcome Research

Moderators: **Elliot Benjamin Tapper**,  
Natalie Torok

### Sunday, May 19, 2019 cont'd

**4:00 – 5:30 PM** **20BCD**

AGA Distinguished Abstract Plenary

Immunology, Microbiology &  
Inflammatory Bowel Diseases (IMIBD)  
Section Distinguished Abstract Plenary

Moderators: **Peter D.R. Higgins**, Uma  
Mahadevan

**4:00 – 5:30 PM** **29CD**

AGA Plenary Session

AGA Basic Science Plenary

Moderators: **Linda C. Samuelson**,  
Jerrold Turner

**4:30 – 5:30 PM** **6AB**

ASGE Postgraduate Course

Best Practices and Emerging Paradigms:  
Session 3

Moderator: **Allison R Schulman**

**4:00 – 5:30 PM** **6DE**

AASLD Clinical Symposium

Preventing Hospitalizations for  
Populations with Decompensated  
Cirrhosis

Moderators: **Elliot B. Tapper**, Michael Volk

### Monday, May 20, 2019

**8:00 – 9:30 AM** **30**

Research Forum

Prediction of Therapeutic Outcomes in IBD

Moderators: **Kelly C. Cushing**, Jenny Sauk

**8:00 – 9:30 AM** **8**

Research Forum

Hepatotoxicity and Metabolic/Genetic  
Diseases

Moderators: Lily Dara, **Robert J. Fontana**

**8:00 – 9:30 AM** **31A**

Committee Sponsored Symposium

Best of AGA at DDW in Chinese

Moderators: **John Y. Kao**, Shutian Zhang

### Monday, May 20, 2019 cont'd

**10:00 – 11:30 AM** **7**

Clinical Symposium

Tackling Complex ERCP

Moderators: **Grace H. Elta**, Joanna K. Law

**10:00 – 11:30 AM** **27AB**

Research Symposium

Defining Gastrointestinal Inflammation  
at the Organellar Level

Moderators: Aida Habtezion, **Yatrik M.  
Shah**

**10:00 – 11:30 AM** **29B**

Research Symposium

Microphysiological Systems to Model the  
Neural-Epithelial Axis in the Gut

Moderators: Tracy Grikscheit, **Jason  
Spence**

**2:00 – 3:00 PM** **6DE**

AASLD State-of-the-Art Lecture

Drug-Induced Liver Injury in GI Practice

Moderator: **Robert J. Fontana**

**4:00 – 5:30 PM** **29A**

Distinguished Abstract Plenary

Cellular & Molecular Gastroenterology  
(CMG) Section Distinguished Abstract  
Plenary: Stem Cells and Differentiated  
Cell Plasticity in Metaplasia and  
Regeneration

Moderators: Jason Mills, **Linda C.  
Samuelson**

**4:00 – 5:30 PM** **31A**

Distinguished Abstract Plenary

Neurogastroenterology & Motility (NGM)  
Distinguished Abstract Plenary

Moderators: John E. Pandolfino, **John W.  
Wiley**





## Moderators

### Tuesday, May 21, 2019

**8:00 – 9:30 AM** **9**

AGA Distinguished Abstract Plenary  
Esophageal, Gastric & Duodenal Disorders (EGD) Section Distinguished Abstract Plenary  
Moderators: Ikuo Hirano, **John Y. Kao**

**8:00 – 9:30 AM** **8**

AGA Research Forum  
Intestinal Fibrosis  
Moderator: **Peter D.R. Higgins**

**10:00 – 11:30 AM** **11A**

AASLD Research Forum  
Liver Transplantation  
Moderators: David C. Mulligan, **Pratima Sharma**

**10:00 – 11:30 AM** **29CD**

AGA Research Forum  
Basic Mucosal Mechanisms of Diseases of the Upper GI Tract  
Moderators: Hui Dong, **Mohamad El-Zaatari**

**10:00 – 11:30 AM** **9**

AGA Research Forum  
Functional Dyspepsia, Nausea and Vomiting  
Moderators: **William L. Hasler**, Baha Moshiree

**10:00 – 10:30 AM** **Hall E**

ASGE Learning Center  
ASGE 2019 Hot Topic: Video Tips You Can Use With Your Team  
Notes: **Michelle A. Anderson**

**4:00 – 5:30 PM** **29A**

AGA Research Forum  
*H. pylori* Host Response/Mucosal Defense, Injury, and Repair  
Moderators: **Mohamad El-Zaatari**, Steven F. Moss

## Poster Sessions

12:00 – 2:00 PM

### Saturday, May 18, 2019

**Sa1000**

A national survey of internists' perceptions of PPI risks and recommendations for deprescribing  
**Jacob Eli Kurlander, Joel H. Rubenstein**, Caroline Richardson, Sarah L. Krein, Raymond De Vries, Brian J. Zikmund-Fisher, Yu-Xiao Yang, Loren Lain, **Sameer Dev Saini**

**Sa1028 • Poster of Distinction**

Cost savings from generic proton pump inhibitors in Medicare Part D from 2013–2016

**Andrew J. Read, Jacob Eli Kurlander, Akbar K. Waljee, Sameer Dev Saini**

**Sa1082 • Poster of Distinction**

Development and validation of a machine-learning model to predict adequate bowel preparation in a sample of US veterans

**Jacob Eli Kurlander, Sameer Dev Saini**, Rachel Lipson, **Stacy B. Menees**, Shahnaz Sultan, Alex Novak Kokaly, **Akbar K. Waljee**

**Sa1111**

Regulation of the BMP signaling inhibitor Smad6 in gastritis and gastric cancer  
Lifang Zhang, Maria Yawen Mao, Wei Ye, Yitian Yang, Wai K. Leung, Kent-Man Chu, Fung-Yu Huang, **Andrea Todisco**

**Sa1141**

Validation and comparison of tools for selecting individuals for screening for Barrett's esophagus and early neoplasia  
**Joel H. Rubenstein**, Li Jiang, **Akbar K. Waljee**, Valbona Metko, Kimberly Nofz, Maryam Khodadost, Trivellore Raghunathan

**Sa1198**

Management patterns for nonacid reflux patients at a large academic medical center  
**Chanakyaram A. Reddy**, Lydia Watts, Jason Baker, **Joan W. Chen**

**Sa1236**

Determining appropriate reimbursement for innovative endoscopic devices using cost-minimization analysis: Endoscopic suturing to prevent stent migration for benign esophageal strictures  
Eric Dinesh Shah, Amy E. Hosmer, **Arpan H. Patel**, Shannon Morales, **Ryan Law**

**Sa1276**

Utility of esophagram after per-oral endoscopic myotomy (POEM)  
**Chanakyaram A. Reddy**, Anna Tavakkoli, Mustafa Abdul-Hussein, Andrew C. Chang, **Joan W. Chen**, Mahmoud Al-Hawary, Sheryl J. Korsnes, B. Joseph Elmunzer, **Ryan Law**

**Sa1499 • Poster of Distinction**

The impact of alcohol tax rate on mortality from alcoholic liver disease in the United States  
**Neehar Dilip Parikh**, Kexin Jiang, **Jessica L. Mellinger**, **Elliot Benjamin Tapper**

**Sa1638**

Non-alcoholic fatty liver disease among patients with heart failure with preserved ejection fraction: Prevalence, risk factors and disease stage  
**Monica A. Konerman**, Alexandria Miller, Jennifer McNamara, Scott Hummel, Matthew Konerman

**Sa1664**

Are dyssynergic defecation and altered rectal sensation under-recognized cause of chronic constipation in patients taking opioids?  
Jason Baker, **Borko Nojkov**, **Richard J. Saad**, **Stacy B. Menees**, **Shanti Eswaran**, **Allen Lee**, **Kimberly N. Harer**, **William Chey**



## Poster Sessions

12:00 – 2:00 PM

### Saturday, May 18, 2019 cont'd

#### Sa1707 • Poster of Distinction

Using endoscopic fine needle biopsies of pancreatic ductal adenocarcinoma for immunotherapy precision medicine

**Eileen Carpenter**, Nina Steele, Veerin Sirihorachai, Samantha Kemp, Lawrence Delrosario, Timothy Frankel, **Howard Crawford**, **Michelle A. Anderson**, Marina Pasca Di Magliano

#### Sa1804

Incidence of obstructive complications after intra-abdominal surgeries in patients with Crohn's disease receiving care at 12 Veterans Affairs Medical Centers

Frank I. Scott, Nicholas Bianchina, Jason Ken Hou, Jennifer Burns, Wyndy L. Wiitala, **Shirley Cohen-Mekelburg**, **Ryan W. Stidham**, **Akbar K. Waljee**

#### Sa1808

Trends of 5-ASA medication use in patients with Crohn's disease

Mohamed Noureldin, **Shirley Cohen-Mekelburg**, **Ryan W. Stidham**, **Peter D.R. Higgins**, Shail Mahendra Govani, Amar Deshpande, **Akbar K. Waljee**

#### Sa1879

Disability in patients with ileal pouch anal anastomosis

Maia Kayal, Ryan C. Ungaro, Alexa Riggs, Kanika Kamal, Manasi Agrawal, **Shirley Cohen-Mekelburg**, Jordan Eric Axelrad, Brad Tricomi, Adam S. Faye, Ellen Scherl, Garrett Lawlor, Dana J. Lukin, Jean Frederic Colombel, Marla Dubinsky

#### Sa2007

Aspirin/NSAID use greater than 4 years reduces inflammatory-associated microsatellite alterations in proximal colorectal cancer (CRC) and improves patient overall survival

Yoshiki Okita, **Minoru Koi**, Erika Koeppe, **Elena M. Stoffel**, Joseph Galanko, Nikki McCoy, Temitope O. Keku, **John M. Carethers**

### Saturday, May 18, 2019 cont'd

#### Sa2039

Understanding how differences in socioeconomic status, education, and age influence treatment choice in IBS patients

Jason Baker, Lydia Watts, **William L. Hasler**, **Kimberly N. Harer**, **Stacy B. Menees**, **Shanti Eswaran**, **Allen Lee**, **William Chey**

### Sunday, May 19, 2019

#### Su1280

Efficacies of tailored therapy versus guideline-recommended empiric therapies for eradication of *Helicobacter pylori* – a trend survey over 20 years in Taiwan (1999-2018)

Chien-Chih Tung, Chi-Tan Hu, I-Nan Kuo, Bor-Ru Lin, Hong-Long Wang, Jin-De Chen, Mu-Liang Cheng, Chia-Tung Shun, Ming Jium Shieh, **John Y. Kao**, Jyh-Chin Yang

#### Su1296

Superbug or something else: Factors contributing to failure of antibiotic susceptibility-based tailored H. pylori eradication

**Elena Fradkov**, Bei Tan, Jyh-Chin Yang, Carol L. Young, Cullen Kathleen, Min Zhang, **John Y. Kao**

#### Su1370

Initial experience of nitrous oxide cryoballoon ablation for eradication of nonpolypoid sporadic and familial adenomatous polyposis (FAP) duodenal adenomas

Olaya I. Brewer Gutierrez, David L. Diehl, **Richard Kwon**, Nirav Thosani, Mohamad Dbouk, Harshit S. Khara, Tossapol Kerdsirichairat, Marcia Irene Canto

#### Su1446

Clinical characteristics of patients with symptoms of gastroparesis and history of pancreatitis

### Sunday, May 19, 2019 cont'd

Thomas Abell, Goro Yamada, Henry P. Parkman, Richard W. McCallum, Kenneth L. Koch, Braden Kuo, Irene Sarosiek, Linda Anh Bui Nguyen, William J. Snape, **William L. Hasler**, Madhusudan Grover, Gianrico Farrugia, Pankaj J. Pasricha, James Tonascia, Frank A. Hamilton

#### Su1474

Concordance of vibration controlled transient elastography, shear wave elastography, non-invasive biomarkers and liver histology in a real world clinical setting

Sydni Williams, Nikhil Patel, **Anna Lok**, **Monica A. Konerman**

#### Su1496

Prescription opioid use and risk of adverse clinical outcomes among individuals with chronic liver disease

**Monica A. Konerman**, Brooke Kenney, Amit G. Singal, **Elliot Benjamin Tapper**, **Pratima Sharma**, Shari S. Rogal, **Jessica L. Mellinger**, **Sameer Dev Saini**, Brahmajee Nallamothu, **Akbar K. Waljee**

#### Su1540

Identification of nuclear lamina genetic variants associated with nonalcoholic fatty liver disease in a well-phenotyped academic medical center-based cohort

**Graham Brady**, Ayse Bilge Ozel, Matthew Zawistowski, Jun Li, M. **Bishr Omary**

#### Su1541

Lamin mutations in familial partial lipodystrophy point to phosphorylation as a therapeutic target

Eric W. Lin, **Graham Brady**, Raymond Kwan, Alexey Nesvizhskii, M. **Bishr Omary**

#### Su1560

Pilot trial of a mobile technology based lifestyle intervention for individuals with non-alcoholic fatty liver disease

**Monica A. Konerman**, Angela Lyden, Jane J. Wong, **Lisa M. Glass**, Caroline Richardson, Elizabeth Jackson, **Anna Lok**

**Sunday, May 19, 2019** cont'd

**Su1588**

How cost affects treatment choice for irritable bowel syndrome with diarrhea: A cost-effectiveness analysis of guideline-recommended treatment interventions to determine appropriate order of therapy in clinical practice

Eric D. Shah, Peter R. Gibson, Jane Muir, **Shanti L. Eswaran, William D. Chey**

**Su1930**

Safety and efficacy of olorinab, a peripherally restricted, highly selective, cannabinoid receptor 2 agonist in a phase 2a study in chronic abdominal pain associated with Crohn's disease

Bruce Yacyshyn, Daniel C. Ginsberg, Kye Gilder, Brandon Walsh, Brett English, Stewart A. Turner, Preston Klassen, Stephen B. Hanauer, Charles F. Barish, **Peter D.R. Higgins**

**Su1963**

Amino acid sensing is an essential mechanism of mTORC1 activation in colorectal tumorigenesis

Sumeet A. Solanki, Jun-Hee Lee, **Yatrik M. Shah**

**Su1990**

*Fusobacterium nucleatum* infection associates with two types of microsatellite alterations in colorectal cancers (CRC)

**Minoru Koi**, Yoshiki Okita, Yoshinaga Okugawa, Takahito Kitajima, Yuji Toiyama, Erika Koeppe, **Elena M. Stoffel, John M. Carethers**

**Su1996**

Altered gut microbiota induced by a dietary emulsifier degrades the colonic mucus barrier and promotes visceral hypersensitivity

**Dabo Xu**, Xiaoyin Wu, **Merritt Gilliland**, Weiyang Zheng, Xiaomin Hu, Eric Martens, **Chung Owyang**

**Sunday, May 19, 2019** cont'd

**Su2004**

Disruption of circadian rhythm reduces thermogenesis in brown adipose tissue, leading to abnormal weight gain and development of metabolic syndrome. Mediation by gut dysbiosis and endotoxemia.

Xiaomin Hu, **Ji-Yao Li**, Xiaoyin Wu, **Shi-Yi Zhou, Merritt Gilliland**, Xu Han, Weiyang Zheng, **Chung Owyang**

**Su2047**

Functional lumen imaging probe is useful for the quantification of gastric sleeve stenosis and prediction of response to endoscopic dilation

**Jessica X. Yu**, Jason Baker, **Joan W. Chen, Ryan Law, Amar B. Mandalia, Joel H. Rubenstein**, Lydia Watts, Shelby A. Sullivan, **Allison R. Schulman**

**Su2055**

Characterizing intestinal strictures of Crohn's disease with a capsule-shaped acoustic resolution photoacoustic endoscope

Guan Xu, Hao Lei, Laura Johnson, Kathryn A. Eaton, Shengchun Liu, Jun Ni, Xueding Wang, **Peter D.R. Higgins**

**Monday, May 20, 2019**

**Mo1074**

Comprehensive case-matched study on adverse events associated with gastric per oral endoscopic myotomy

Yervant Ichkhanian, Kia Vosoughi, Mohamad Aghaie Meybodi, Jeremie Jacques, Amrita Sethi, Anish Patel, A. Aziz Adam, Joseph Triggs, Petros C. Benias, Dalton Chaves, Maximilien Barret, **Ryan Law**, Nicole Bowers, Mathieu Pioche, Peter V. Draganov, Andrey I Kotzev, Eduardo Albeniz, Fermin Estremera, Michael Ujiki, Zachary M. Callahan, Amol Bapaye, Shivangi Dorwat, Olaya I. Brewer Gutierrez, Mouen A. Khashab

**Monday, May 20, 2019** cont'd

**Mo1155**

Patterns of care in the management of eosinophilic esophagitis

**Joy W. Chang**, Samuel R. Olson, Ju Young Kim, Joel Greenson, **Joan W. Chen**, Georgiana Sanders, **Joel H. Rubenstein**

**Mo1196**

Long term quality of life among patients with neoplastic Barrett's esophagus following endoscopic therapy compared to esophagectomy

**Chanakaram A. Reddy**, Anna Tavakkoli, **Vincent L. Chen**, Sheryl J. Korsnes, **Aarti Bedi**, Philip W. Carrott, Andrew C. Chang, Kiran H. Lagisetty, **Richard Kwon**, B. Joseph Elmunzer, Mark B. Orringer, Cyrus Piraka, **Anoop Prabhu**, Rishi M. Reddy, **Erik Wamsteker, Joel H. Rubenstein**

**Mo1451**

Liquid biopsy for prognosis in hepatocellular carcinoma (HCC) using circulating tumor cells (CTCS): A systematic review and meta-analysis

**Vincent L. Chen, Dabo Xu**, Ramdane Harouaka, Max Wicha, **Anna Lok, Neehar D. Parikh**

**Mo1565**

Confocal laser endomicroscopy in patients with functional dyspepsia: Does "leaky gut" play a role?

**Borko Nojkov**, Russell Dolan, Julia J. Liu, Henry D. Appelman, **Thomas Wang, Matthew B. Sturm, William D. Chey**

**Mo1572 • Poster of Distinction**

Delayed gastric emptying by wireless motility capsule but not scintigraphy is associated with worse symptom severity scores

**Allen Lee**, Henry P. Parkman, Irene Sarosiek, Linda Anh Bui Nguyen, Michael I. Schulman, Baha Moshiree, Richard W. McCallum, John Man-Ho Wo, Satish S.C. Rao, **William L. Hasler**, Braden Kuo



## Poster Sessions

12:00 – 2:00 PM

### Monday, May 20, 2019 cont'd

#### Mo1591

Does other end-organ damage correlate with risk of gastroparesis in diabetics?

Henry P. Parkman, Laura Wilson, Kenneth L. Koch, **William L. Hasler**, Linda Anh Bui Nguyen, Thomas Abell, William J. Snape, John O. Clarke, Braden Kuo, Richard W. McCallum, Irene Sarosiek, Madhusudan Grover, Gianrico Farrugia, James Tonascia, Frank A. Hamilton, Pankaj J. Pasricha

#### Mo1592

Marijuana use in patients with symptoms of gastroparesis: Prevalence, patient characteristics, and perceived benefit

Henry P. Parkman, Emily Sharkey, Linda Anh Bui Nguyen, Katherine Parker Yates, William J. Snape, John O. Clarke, **William L. Hasler**, Kenneth L. Koch, Richard W. McCallum, Irene Sarosiek, Thomas Abell, Madhusudan Grover, Gianrico Farrugia, Braden Kuo, James Tonascia, Frank A. Hamilton, Pankaj J. Pasricha

#### Mo1604

Comparison of symptom and quality of life outcomes over 6 months in suspected gastroparesis due to diabetic vs. non-diabetic etiology: Importance of diabetic subtype and gastric emptying delays

**William L. Hasler**, Braden Kuo, **Allen Lee**, Linda Anh Bui Nguyen, Baha Moshiree, Henry P. Parkman, John Man-Ho Wo, Michael I. Schulman, Richard Krause, Irene Sarosiek, Richard W. McCallum, Satish S.C. Rao

#### Mo1718 • Poster of Distinction

Racial and geographic disparities in pancreatic cancer incidence and mortality in the United States

Anna Tavakkoli, Amit G. Singal, **Akbar K. Waljee**, B. Joseph Elmunzer, Sandi Pruitt, **Joel H. Rubenstein**, James M. Scheiman, Caitlin C. Murphy

#### Mo1730

Butyrate-treated colon organoids from FAP subjects suppress key cancer pathways when ZBP-89 (ZNF148) deleted  
Akash Gupta, Ramon Ocádiz-Ruiz, Durga Attili, Michael K. Dame, Elaine Brady, **D. Kim Turgeon**, Juanita L. Merchant

#### Mo1741

Induction of whole genome doubling with MSH3-deficiency in human colon diploid cells

Satoshi Suzuki, **Minoru Koi**, **John M. Carethers**

#### Mo1773

Cost drivers and trends in inflammatory bowel diseases

K. T. Park, Orna G. Ehrlich, **John I. Allen**, Perry Meadows, Eva Szigethy, Kimberlee Henrichsen, Sandra C. Kim, Rachel Lawton, Sean Murphy, Miguel D. Regueiro, David T. Rubin, Nicole M. Engel-Nitz, Caren Heller

#### Mo1817

Responder definitions for the ulcerative colitis patient-reported outcomes signs and symptoms (UC-PRO/SS) tool using patients with ulcerative colitis treated with etrolizumab

**Peter D.R. Higgins**, Alison Matsui, Kendra DeBusk, Jennifer Pulley, Astrid Scalori, Young S. Oh, Udayasankar Arulmani

#### Mo1837

Effect of upadacitinib on extra-intestinal manifestations in patients with moderate to severe Crohn's disease: Data from the CELEST study

Laurent Peyrin-Biroulet, Silvio Danese, Edouard Louis, **Peter D.R. Higgins**, Marla Dubinsky, Fabio Cataldi, Qian Zhou, Wan-Ju Lee, Kristina Klignys

#### Mo1877

Tumor necrosis factor  $\alpha$  and IL-17a producing CD4<sup>+</sup> tissue resident memory T-cells are expanded in Crohn's and are inhibited by the anti-inflammatory microbial metabolite butyrate

**Shrinivas Bishu**, **Mohamad El-Zaatari**, Atsushi Hayashi, Guoqing Hou, Nicole Bowers, **Jami A. Kinnucan**, **Beth Manoogian**, **Michelle Muza-Moons**, Min Zhang, Helmut Grasberger, Weiping Zou, **Peter D. Higgins**, **Jason Spence**, **Ryan W. Stidham**, **Nobuhiko Kamada**, **John Y. Kao**

#### Mo1927

*Citrobacter rodentium* induces CD4<sup>+</sup> tissue resident memory T-cells that expand with re-challenge

**Shrinivas Bishu**, Guoqing Hou, **Mohamad El-Zaatari**, Shreenath Bishu, Min Zhang, Helmut Grasberger, Weiping Zou, **Ryan W. Stidham**, **Peter D. Higgins**, **Jason Spence**, **Nobuhiko Kamada**, **John Y. Kao**

#### Mo1945

The influence of pets on risk for *Clostridium difficile* infection (CDI)

**Jeffrey Berinstein**, **Calen A. Steiner**, Katelin Roth, Emily Briggs, Krishna Rao, **Peter D. Higgins**

#### Mo1962

Morbid obesity increases 30-day readmission and morbidity in *Clostridium difficile* infection

**Amar B. Mandalia**, Marwan Samir Abougergi, **Allison R. Schulman**

#### Mo2012

High-fat diet reduces brown adipose tissue thermogenesis, which contributes to obesity: Mediation by gut dysbiosis and endotoxemia

**Ji-Yao Li**, Xiaoyin Wu, **Gintautas Grabauskas**, **Merritt Gilliland**, **Chung Owyang**

#### Mo2039

Upper gastrointestinal series after sleeve gastrectomy is unnecessary to evaluate for gastric sleeve stenosis

**Amar B. Mandalia**, **Jessica Xinyao Yu**, **Allison R. Schulman**





## Poster Sessions

12:00 – 2:00 PM

### Tuesday, May 21, 2019

#### Tu1004

Fragmented care is prevalent among patients with readmission following bariatric surgery and is associated with increased cost

**Allison R. Schulman**, Marwan Samir Abougergi

#### Tu1021

Distance of travel to the site of screening colonoscopy does not impact bowel preparation quality or adenoma detection

**Keith Naylor, Amit Gupta**

#### Tu1027

Esophageal manometry competency program improves performance in motility diagnostics in gastroenterology fellows

Kelli DeLay, John E. Pandolfino, Alexander Kaizer, C. Prakash Gyawali, Jeanetta Frye, Paul Menard-Katcher, Andrew J. Gawron, Kathryn A. Peterson, Joshua A. Sloan, Dustin Carlson, **Joan W. Chen**, Amy N. Stratton, David C. Kunkel, Abraham Khan, David A. Leiman, Zoe Van De Voorde, Rena H. Yadlapati

#### Tu1172 • Poster of Distinction

Incomplete response of symptoms of gastroesophageal reflux disease to proton pump inhibitors poorly predicts erosive esophagitis and Barrett's esophagus

**Joel H. Rubenstein**, Li Jiang, **Jacob E. Kurlander, Joan W. Chen**, Valbona Metko, Maryam Khodadost, Kimberly Nofz, Trivellore Raghunathan

#### Tu1257

Esophageal histopathologic patterns in patients undergoing per-oral endoscopic myotomy (POEM)

**Chanakyaram A. Reddy, Ryan Law**, Henry D. Appelman, Andrew C. Chang, Sheryl J. Korsnes, **Joan W. Chen**

#### Tu1482

Application of deep learning models to predict progression to cirrhosis among veterans with chronic hepatitis C

**Monica A. Konerman**, Weijing Tang, George N. Ioannou, Lauren Beste, **Grace L. Su**, Tony Van, **Elliot Benjamin Tapper, Sameer Dev Saini**, Brahmajee Nallamothu, Ji Zhu, **Akbar K. Waljee**

#### Tu1487

Factors associated with lack of improvement of patient reported outcomes (PRO) in chronic hepatitis C (CHC) patients with sustained virologic response (SVR)

Maria Stepanova, **Elliot Benjamin Tapper**, Edward Gane, Mark S. Sulkowski, Marc Bourliere, Zobair M. Younossi

#### Tu1496

Democratic deliberation to assess veteran preferences on allocation of healthcare resources for chronic hepatitis C treatment

**Akbar K. Waljee**, Kerry A. Ryan, **Monica A. Konerman**, Lauren Beste, George N. Ioannou, **Grace L. Su, Sameer Dev Saini**, Maria Hughes, Amanda Ellis, Pia Roman, Chris Krenz, Raymond De Vries

#### Tu1585

Hepatitis C eradication reduces the risk of developing hepatic encephalopathy and increases the likelihood of resolution of pre-treatment hepatic encephalopathy

**Elliot Benjamin Tapper, Neehar Dilip Parikh**, Pamela Green, Kristin Berry, **Akbar K. Waljee**, Andrew M. Moon, George N. Ioannou

#### Tu1609 • Poster of Distinction

How often do gastroenterologist's screen for psychological trauma? Identifying the unmet need.

**Christina H. Jagielski, Megan E. Riehl, William D. Chey**

#### Tu1727

Rapidity of symptomatic and inflammatory biomarker improvements following upadacitinib induction treatment: Data from the U-ACHIEVE study

Geert R. D'Haens, Edward V. Loftus, **Peter D.R. Higgins**, Julian Panes, Remo Panaccione, Wen Zhou, Fabio Cataldi, Wan-Ju Lee, Bidan Huang, Wangang Xie, Severine Vermeire

#### Tu1794

Adherent-invasive *Escherichia coli* colonization promotes intestinal fibrosis via activation of IL-33/ST2 signaling

Jin Imai, Sho Kitamoto, Hiroko Nagao-Kitamoto, Atsushi Hayashi, Tina Morhardt, Peter Kuffa, **Peter D.R. Higgins**, Nicolas Barnich, **Nobuhiko Kamada**

#### Tu1817

Increasing subcutaneous fat and weight are correlated with reduced adalimumab drug levels in patients with inflammatory bowel disease

**Ryan W. Stidham**, Brian A. Derstine, Binu Enchakalody, **Akbar K. Waljee, Peter D.R. Higgins**, Sullivan A. June, **Grace L. Su**, Stewart C. Wang

#### Tu1927

Venous thromboembolism during index admission for Roux-en-Y gastric bypass increases one year mortality

**Jessica Xinyao Yu**, Marwan Samir Abougergi, **Allison R. Schulman**

#### Tu1983

EUS-guided creation of entero-enterostomy using lumen apposing metal stents for pancreaticobiliary access in non-RYGB surgical anatomy patients

Juliana Yang, Theodore James, Todd H. Baron, Shayan S. Irani, William Hsueh, John Nasr, Enad Dawod, Qais Maher Dawod, Kaveh Hajifathalian, Reem Z. Sharaiha, **Ryan Law**, Andreas Wannhoff, Karel Caca, Douglas G. Adler, Kia Vosoughi, Yervant Ichkhanian, Olaya I. Brewer Gutierrez, Mouen A. Khashab





**MICHIGAN MEDICINE**  
UNIVERSITY OF MICHIGAN

# the GI Digest

A daily schedule of our activity at Digestive Disease Week® 2019

Department of Internal Medicine, Division of Gastroenterology and Hepatology

Rooms are in the San Diego Convention Center, unless indicated otherwise. Posters are listed by poster number, at the end of each day. The poster sessions are from 12:00 to 2:00 PM in Halls C–E.

## SATURDAY, MAY 18

**8:00 – 9:30 AM** 24ABC

AGA Committee Sponsored Symposium

### Tales from the front lines: Translating “best practices” into meaningful quality measures

Moderators: **Megan A. Adams**, Jeffrey D Mosko

**8:00 – 9:30 AM** • Clinical Symposium 32AB

### GI and Liver Complications of Immunotherapies

Moderators: **Michael Dougan**, **Robert J. Fontana**

**8:00 AM** 24ABC

AGA Committee-Sponsored Symposium

### How are quality measures developed by AGA?

**Megan A. Adams**

**8:00 AM** • Research Forum 7

### Prevalence and predictors of GERD and PPI-resistant GERD in the United States: results from a population-based survey of over 71,000 Americans

**Sean Delshad**, **Christopher V. Almario**, **William D. Chey**, **Brennan Spiegel**

**8:00 AM** 31A

AGA Committee-Sponsored Symposium

### Global *H. pylori* prevalence against IBD incidence

**John Y. Kao**

**8:00 AM** • ASGE Hands On Hall H

### ASGE Hands On Workshop • Bariatric Therapies

**Shelby A. Sullivan**, **Barham K. Abu Dayyeh**, **Nitin Kumar**, **Rachel L. Moore**, **Vivek Kumbhari**, **Eduardo Grecco**, **Manoel Galvao Neto**, **Gontrand Lopez-Nava**, **Marvin Ryou**, **Allison R. Schulman**

**8:00 AM** • AGA Translational Symposium 29CD

### The need for isogenic intestinal transplantation and biopsy banking

**Jason Spence**

**8:22 AM** 31A

AGA Committee-Sponsored Symposium

### IBD and gut microbiome

**Nobuhiko Kamada**

**8:50 AM** • DDW Clinical Symposium 32AB

### Clinical features and management of checkpoint hepatitis

**Robert J. Fontana**

**9:12 AM** 24ABC

AGA Committee Sponsored Symposium

### Tales from the front lines: Translating “best practices” into meaningful quality measures • Q&A: Panel discussion

Panel: **Megan A. Adams**, **Neil Gupta**, **Chien-Huan Chen**, **David A. Leiman**

**10:00 – 11:30 AM** • AGA Clinical Symposium 3

### AGA Emmet B. Keeffe Symposium – Hepatitis A: It’s a Problem Again

Moderators: **Robert J. Fontana**, **Kenneth E. Sherman**

**10:00 AM** • AGA Clinical Symposium 26AB

### Food as the main course for the irritable bowel syndrome

**William D. Chey**

**10:00 AM** • Research Forum 32AB

### Discontinuity of care among inflammatory bowel disease patients in a large integrated healthcare system

**Shirley Cohen-Mekelburg**, **Sameer D. Saini**, **Beth Wallace**, **John M. Hollingsworth**, **Julie Bynum**, **Jennifer Burns**, **Wyndy L. Wiitala**, **Peter D. Higgins**, **Akbar K. Waljee**

**10:15 AM** • ASGE Clinical Symposium 4

### Polypectomy and anticoagulants/antiplatelets: What should I do?

**Michelle A. Anderson**

**11:45 AM – 12:30 PM** • Poster Tour Halls C-E

### GERD and Barrett’s Esophagus

Moderators: **Joan W. Chen**, **Karthik Ravi**

**12:00 PM** • ASGE Hands On Hall H

### ASGE Hands On Workshop • Suturing and closures

**Nikhil A. Kumta**, **Prashant Kedia**, **Allison R. Schulman**, **Vivek Kumbhari**, **Nitin Kumar**, **Michael C. Larsen**, **Neil Gupta**, **A. Aziz Aadam**, **Pichamol Jirapinyo**, **Austin L. Chiang**

**2:00 – 3:30 PM** • Topic Forum 5

### Endoscopic Bariatric and Metabolic Therapy: Expanding the Toolkit

Moderators: **Mark Andrew Gromski**, **Allison R Schulman**

**2:00 PM** • AGA Clinical Symposium 26AB

### Which quality metrics to track for colonoscopy and EGD

**John I. Allen**

**2:00 PM** • AGA Translational Symposium 29CD

### Gut microbial community function and host response in IBD

**Nobuhiko Kamada**

**3:06 PM** • AGA Clinical Symposium 26AB

### Use of monitored anesthesia care in the endoscopy suite

**Megan A. Adams**

**3:06 PM** • AGA Clinical Symposium 3

### Therapeutic biliary EUS: Ready for prime time?

**Ryan Law**

**3:20 – 3:50 PM** • ASGE Learning Center Hall E

### Meet the VideoGIE Top Reviewers: Learn the Art of Reviewing

Notes/Moderators: **Ryan Law**, **Lisa Cassani**

**3:27 PM** 20ABCD

AGA Postgraduate Course General Session

### Small intestine bacterial overgrowth: Fact and fiction

**William D. Chey**

## SATURDAY, MAY 18 (cont'd)

3:45 PM 20ABCD

AGA Postgraduate Course General Session

### Panel Q & A

Panel: *David A. Katzka, Linda Anh B. Nguyen, Michael Camilleri, William D. Chey*

4:00 – 5:30 PM 6AB

ASGE Clinical Symposium

### Colorectal Cancer: New Technologies, New Guidelines

Moderators: *John M. Carethers, Linda C. Cummings*

4:00 – 5:30 PM 3

AGA Committee Sponsored Symposium

### Beyond Starbucks: Mitigating Bias Through Awareness

Moderators: *Chien-Huan Chen, Miguel Malespin, Ibiroinke Oduyebo*

4:00 PM 6C

AGA Postgraduate Course • Case-based Session

### HCC: Multidisciplinary approach to care

*Anjana A. Pillai, Neehar D. Parikh*

4:41 PM • Basic Science Quick Shots 29A

### Lamin mutations in familial partial lipodystrophy point to phosphorylation as a therapeutic target

*Eric W. Lin, Graham Brady, Raymond Kwan, Alexey Nesvizhskii, M. Bishr Omary*

4:59 PM • Topic Forum 4

### Electrocautery setting does not affect efficacy and safety of endoscopic resection of large colorectal polyps

*Heiko Pohl, Ian S. Grimm, Matthew T. Moyer, Muhammad K. Hasan, Douglas K. Pleskow, B. Joseph Elmunzer, Mouen A. Khashab, Omid Sanaei, Firas al Kawas, Stuart R. Gordon, Abraham Mathew, John M. Levenick, Harry R. Aslanian, Fadi Antaki, Daniel von Renteln, Seth Crockett, Amit Rastogi, Jeffrey Gill, Ryan Law, Puja S. Elias, Maria Pellise, Todd MacKenzie, Douglas K. Rex*

5:00 PM • Research Forum 30

### Safety and efficacy of anti-TNF therapy in older patients with ulcerative colitis: A patient-level pooled analysis of RCT data

*David Cheng, Kelly C. Cushing, Tianxi Cai, Ashwin Ananthakrishnan*

5:14 PM • Topic Forum 4

### State of the art: Gender disparity in GI practice

*Grace H. Elta*

5:20 PM 3

AGA Committee-Sponsored Symposium

### Roundtable Discussions: 1. Unconscious/implicit bias; 2. Patient to provider bias

*Ibiroinke Oduyebo*

## POSTER SESSIONS • Saturday

Sa1000

### A national survey of internists' perceptions of PPI risks and recommendations for deprescribing

*Jacob Eli Kurlander, Joel H. Rubenstein, Caroline Richardson, Sarah L. Krein, Raymond De Vries, Brian J. Zikmund-Fisher, Yu-Xiao Yang, Loren Lain, Sameer D. Saini*

Sa1028 • Poster of Distinction

### Cost savings from generic proton pump inhibitors in Medicare Part D from 2013–2016

*Andrew J. Read, Jacob Eli Kurlander, Akbar K. Waljee, Sameer Dev Saini*

Sa1082 • Poster of Distinction

### Development and validation of a machine-learning model to predict adequate bowel preparation in a sample of US veterans

*Jacob Eli Kurlander, Sameer Dev Saini, Rachel Lipson, Stacy B. Menees, Shahnaz Sultan, Alex Novak Kokaly, Akbar K. Waljee*

Sa1111

### Regulation of the BMP signaling inhibitor Smad6 in gastritis and gastric cancer

*Lifang Zhang, Maria Yawen Mao, Wei Ye, Yitian Yang, Wai K. Leung, Kent-Man Chu, Fung-Yu Huang, Andrea Todisco*

Sa1141

### Validation and comparison of tools for selecting individuals for screening for Barrett's esophagus and early neoplasia

*Joel H. Rubenstein, Li Jiang, Akbar K. Waljee, Valbona Metko, Kimberly Nofz, Maryam Khodadost, Trivellore Raghunathan*

Sa1198

### Management patterns for nonacid reflux patients at a large academic medical center

*Chanakyaram A. Reddy, Lydia Watts, Jason Baker, Joan W. Chen*

Sa1236

### Determining appropriate reimbursement for innovative endoscopic devices using cost-minimization analysis: Endoscopic suturing to prevent stent migration for benign esophageal strictures

*Eric Dinesh Shah, Amy E. Hosmer, Arpan H. Patel, Shannon Morales, Ryan Law*

Sa1276

### Utility of esophagram after per-oral endoscopic myotomy (POEM)

*Chanakyaram A. Reddy, Anna Tavakkoli, Mustafa Abdul-Hussein, Andrew C. Chang, Joan W. Chen, Mahmoud Al-Hawary, Sheryl J. Korsnes, B. Joseph Elmunzer, Ryan Law*

Sa1499 • Poster of Distinction

### The impact of alcohol tax rate on mortality from alcoholic liver disease in the United States

*Neehar Dilip Parikh, Kexin Jiang, Jessica L. Mellinger, Elliot Benjamin Tapper*

Sa1638

### Non-alcoholic fatty liver disease among patients with heart failure with preserved ejection fraction: Prevalence, risk factors and disease stage

*Monica A. Konerman, Alexandria Miller, Jennifer McNamara, Scott Hummel, Matthew Konerman*

Sa1664

### Are dyssynergic defecation and altered rectal sensation under-recognized cause of chronic constipation in patients taking opioids?

*Jason Baker, Boriko Nojkov, Richard J. Saad, Stacy B. Menees, Shanti Eswaran, Allen Lee, Kimberly N. Harer, William Chey*

**SATURDAY, MAY 18** (cont'd)**Sa1707 • Poster of Distinction**

**Using endoscopic fine needle biopsies of pancreatic ductal adenocarcinoma for immunotherapy precision medicine**

*Eileen Carpenter, Nina Steele, Veerin Sirihorachai, Samantha Kemp, Lawrence Delrosario, Timothy Frankel, Howard Crawford, Michelle A. Anderson, Marina Pasca Di Magliano*

**Sa1804**

**Incidence of obstructive complications after intra-abdominal surgeries in patients with Crohn's disease receiving care at 12 Veterans Affairs Medical Centers**

*Frank I. Scott, Nicholas Bianchina, Jason Ken Hou, Jennifer Burns, Wyndy L. Wiitala, Shirley Cohen-Mekelburg, Ryan W. Stidham, Akbar K. Waljee*

**Sa1808**

**Trends of 5-ASA medication use in patients with Crohn's disease**

*Mohamed Noureldin, Shirley Cohen-Mekelburg, Ryan W. Stidham, Peter D.R. Higgins, Shail Mahendra Govani, Amar Deshpande, Akbar K. Waljee*

**Sa1879**

**Disability in patients with ileal pouch anal anastomosis**

*Maia Kayal, Ryan C. Ungaro, Alexa Riggs, Kanika Kamal, Manasi Agrawal, Shirley Cohen-Mekelburg, Jordan Eric Axelrad, Brad Tricomi, Adam S. Faye, Ellen Scherl, Garrett Lawlor, Dana J. Lukin, Jean Frederic Colombel, Marla Dubinsky*

**Sa2007**

**Aspirin/NSAID use greater than 4 years reduces inflammatory-associated microsatellite alterations in proximal colorectal cancer (CRC) and improves patient overall survival**

*Yoshiki Okita, Minoru Koi, Erika Koeppe, Elena M. Stoffel, Joseph Galanko, Nikki McCoy, Temitope O. Keku, John M. Carethers*

**SATURDAY, MAY 18** (cont'd)**Sa2039**

**Understanding how differences in socioeconomic status, education, and age influence treatment choice in IBS patients**

*Jason Baker, Lydia Watts, William L. Hasler, Kimberly N. Harer, Stacy B. Menees, Shanti Eswaran, Allen Lee, William Chey*

**SUNDAY, MAY 19**

**8:00 – 9:30 AM • AGA Research Forum 30**

**IBD: Microbiome**

Moderators: *Jessica Allegretti, Nobuhiko Kamada*

**8:00 – 9:30 AM • AASLD Plenary Session 6DE**

**Liver Plenary I**

Moderators: *Jorge A Bezerra, Grace L. Su*

**8:15 AM • Research Forum 29B**

**Dietary emulsifiers reduce thermogenesis in brown adipose tissue, leading to obesity and metabolic syndrome**

*Weiyang Zheng, Dabo Xu, Ji-Yao Li, Xiaoyin Wu, Xiaomin Hu, Merritt Gilliland, Shi-Yi Zhou, Chung Owyang*

**8:15 AM • DDW Clinical Symposium 32AB**

**What to do after negative endoscopic evaluations in obscure GI bleeding?**

*James M. Scheiman*

**8:30 AM • AGA Clinical Symposium 25ABC**

**Keeping to time and keeping the patient happy**

*William D. Chey*

**8:54 AM • Research Forum 28E**

**Avoidant/restrictive food intake disorder among adult gastroenterology behavioral health patients: Demographic and clinical characteristics**

*Kimberly N. Harer, Christina H. Jagielski, Megan E. Riehl, William D. Chey*

**9:00 – 11:30 AM • ASGE Hands-on Hall H**

**Customized Hands on Lab**

Moderators: *Neil Gupta, Ryan Law*

**SUNDAY, MAY 19** (cont'd)

**9:15 AM • Research Forum 30**

**Dietary serine regulates the integrity of intestinal mucus barrier during intestinal inflammation**

*Kohei Sugihara, Nobuhiko Kamada*

**10:00 AM • AGA Clinical Symposium 9**

**Artificial intelligence for gastroenterologists: A primer**

*Peter D.R. Higgins*

**10:44 AM • ASGE Clinical Symposium 7**

**Overcoming benign strictures**

*Michelle A. Anderson*

**10:45 AM • Research Forum 30**

**Using deep learning for automated grading of endoscopic disease severity in ulcerative colitis**

*Ryan W. Stidham, Wenshuo Liu, Shrinivas Bishu, Michael D. Rice, Peter D. Higgins, Brahmajee Nallamothu, Ji Zhu, Akbar K. Waljee*

**10:50 AM 3**

**AGA State-of-the-Art Lecture**

**A novel R-spondin 1/POMC neurocircuit in the hypothalamus is activated by insulin to regulate thermogenesis in brown adipose tissue**

*Ji-Yao Li, Xiaoyin Wu, Chung Owyang*

**10:51 AM • DDW Clinical Symposium 32AB**

**Endoscopic treatment of esophageal diverticulum: What is the best approach?**

*Ryan Law*

**11:00 AM • Research Forum 30**

**Complete histologic normalization is associated with reduced risk of relapse among patients with ulcerative colitis in complete endoscopic remission**

*Kelly C. Cushing, William Tan, David H. Alpers, Vikram Deshpande, Ashwin Ananthakrishnan*

**11:05 AM • AASLD Clinical Symposium 6DE**

**Non-surgical treatment of HCC and cholangiocarcinoma**

*Neehar Dilip Parikh*



## SUNDAY, MAY 19 (cont'd)

2:00 – 3:30 PM • AASLD Research Forum 11A

### Health Services and Outcome Research

Moderators: **Elliot Benjamin Tapper**,  
*Natalie Torok*

2:06 PM 24ABC

### AGA State-of-the-Art Lecture

**Is sucrose the sixth FODMAP in a subset of patients with irritable bowel syndrome with diarrhea and sucrose isomaltase deficiency?**

**Shanti L. Eswaran**, *Tenghao Zheng*,  
*Mauro D'Amato*, **William D. Chey**

4:00 – 5:30 PM 20BCD

AGA Distinguished Abstract Plenary

### Immunology, Microbiology & Inflammatory Bowel Diseases Section Distinguished Abstract Plenary

Moderators: **Peter D.R. Higgins**, *Uma Mahadevan*

4:00 – 5:30 PM • AGA Plenary Session 29CD

### AGA Basic Science Plenary

Moderators: **Linda C. Samuelson**, *Jerrold Turner*

4:30 – 5:30 PM • ASGE Postgraduate Course 6AB

### Best Practices and Emerging Paradigms: Session 3

Moderator: **Allison R Schulman**

4:00 – 5:30 PM • AASLD Clinical Symposium 6DE

### Preventing Hospitalizations for Populations with Decompensated Cirrhosis

Moderators: **Elliot B. Tapper**, *Michael Volk*

4:00 PM • AGA Clinical Symposium 20A

Rodger Haggitt Gastrointestinal Pathology Society Symposium

### Why mast it be so hard? Mast cell disorders of the GI tract

**Leslie B. Aldrich**

4:00 PM • Research Forum 29B

### Autoimmune antibodies and symptoms of autoimmune disorder in gastroparesis patients

*Dhruv Chaudhary, Fahad Khan, Christina Pinkston, Thomas Abell, Henry P. Parkman, Richard W. McCallum, Kenneth L. Koch, Braden Kuo, Irene Sarosiek, Linda Anh B. Nguyen, William J. Snape, William L. Hasler, Madhusudan Grover, Gianrico Farrugia, Pankaj J. Pasricha, James Tonascia, Frank A. Hamilton, Laura Wilson*

4:20 PM • AASLD Clinical Symposium 6DE

### Elements of effective interventions **Elliot Benjamin Tapper**

4:48 PM 20BCD

### AGA Distinguished Abstract Plenary Immunology, Microbiology & Inflammatory Bowel Diseases

**Anti-tumor necrosis factor therapy is not associated with post-operative infection: Results from prospective cohort of ulcerative colitis and Crohn's disease patients undergoing surgery to identify risk factors for post-operative infection I (PUCCINI)**

*Benjamin L. Cohen, Phillip Fleshner, Sunanda V. Kane, Hans H. Herfarth, Nicole Palekar, Francis A. Farraye, Jonathan A. Leighton, Jeffry Katz, Russell D. Cohen, Mark E. Gerich, Raymond K. Cross, Peter D. Higgins, Andrew Tinsley, Sarah C. Glover, Corey A. Siegel, Jaime L. Bohl, Heba Iskandar, Samantha Raymond, Ruiqi Huang, Mayte Suarez-Farinas, Bruce E. Sands*

5:00 PM • Research Forum 27AB

### Differential post-translational modification of polymorphic MSH3 and novel binding partner NEMO is associated with its nuclear-to-cytosol shuttling

**Stephanie Tseng-Rogenski**, *Wei Zheng, Minoru Koi, Yang Zhang, John M. Carethers*

5:15 PM • Research Forum 29B

### Characterization of pyloric tonic and phasic pyloric motor activity using expanded EndoFLIP measures before and after G-POEM for medication-refractory gastroparesis

**William L. Hasler**, *Jason Baker, Lydia Watts, Nicole Bowers, Deepa Chandhrasekhar, Allen Lee, Ryan Law*

5:17 PM • AGA Clinical Symposium 26AB

### Efficacy and safety of combined CPP-1X sulindac vs CPP-1X or sulindac alone in patients with familial adenomatous polyposis: Results from a double-blind, randomized phase III trial

*Carol A. Burke, N. Jewel Samadder, Evelien Dekker, Ramona M. Lim, Francesc Balaguer, Steven Gallinger, Robert Hüneburg, Christian P. Strassburg, Patrick M. Lynch, Alfred Cohen, Samir Gupta, Elena M. Stoffel*

## POSTER SESSIONS • Sunday

Su1280

### Efficacies of tailored therapy versus guideline-recommended empiric therapies for eradication of *Helicobacter pylori* – a trend survey over 20 years in Taiwan (1999-2018)

*Chien-Chih Tung, Chi-Tan Hu, I-Nan Kuo, Bor-Ru Lin, Hong-Long Wang, Jin-De Chen, Mu-Liang Cheng, Chia-Tung Shun, Ming Jium Shieh, John Y. Kao, Jyh-Chin Yang*

Su1296

### Superbug or something else: Factors contributing to failure of antibiotic susceptibility-based tailored *H. pylori* eradication

**Elena Fradkov**, *Bei Tan, Jyh-Chin Yang, Carol L. Young, Cullen Kathleen, Min Zhang, John Y. Kao*

Su1370

### Initial experience of nitrous oxide cryoballoon ablation for eradication of nonpolypoid sporadic and familial adenomatous polyposis (FAP) duodenal adenomas

*Olaya I. Brewer Gutierrez, David L. Diehl, Richard Kwon, Nirav Thosani, Mohamad Dbouk, Harshit S. Khara, Tossapol Kerdsirichairat, Marcia Irene Canto*

Su1446

### Clinical characteristics of patients with symptoms of gastroparesis and history of pancreatitis

*Thomas Abell, Goro Yamada, Henry P. Parkman, Richard W. McCallum, Kenneth L. Koch, Braden Kuo, Irene Sarosiek, Linda Anh Bui Nguyen, William J. Snape, William L. Hasler, Madhusudan Grover, Gianrico Farrugia, Pankaj J. Pasricha, James Tonascia, Frank A. Hamilton*

## SUNDAY, MAY 19 (cont'd)

Su1474

**Concordance of vibration controlled transient elastography, shear wave elastography, non-invasive biomarkers and liver histology in a real world clinical setting**

Sydni Williams, Nikhil Patel, **Anna Lok**, **Monica A. Konerman**

Su1496

**Prescription opioid use and risk of adverse clinical outcomes among individuals with chronic liver disease**

**Monica A. Konerman**, Brooke Kenney, Amit G. Singal, **Elliot Benjamin Tapper**, **Pratima Sharma**, Shari S. Rogal, **Jessica L. Mellinger**, **Sameer Dev Saini**, Brahmajee Nallamothu, **Akbar K. Waljee**

Su1540

**Identification of nuclear lamina genetic variants associated with nonalcoholic fatty liver disease in a well-phenotyped academic medical center-based cohort**

**Graham Brady**, Ayse Bilge Ozel, Matthew Zawistowski, Jun Li, **M. Bishr Omary**

Su1541

**Lamin mutations in familial partial lipodystrophy point to phosphorylation as a therapeutic target**

Eric W. Lin, **Graham Brady**, Raymond Kwan, Alexey Nesvizhskii, **M. Bishr Omary**

Su1560

**Pilot trial of a mobile technology based lifestyle intervention for individuals with non-alcoholic fatty liver disease**

**Monica A. Konerman**, Angela Lyden, Jane J. Wong, **Lisa M. Glass**, Caroline Richardson, Elizabeth Jackson, **Anna Lok**

Su1588

**How cost affects treatment choice for irritable bowel syndrome with diarrhea: A cost-effectiveness analysis of guideline-recommended treatment interventions to determine appropriate order of therapy in clinical practice**

Eric D. Shah, Peter R. Gibson, Jane Muir, **Shanti L. Eswaran**, **William D. Chey**

## SUNDAY, MAY 19 (cont'd)

Su1930

**Safety and efficacy of olorinab, a peripherally restricted, highly selective, cannabinoid receptor 2 agonist in a phase 2a study in chronic abdominal pain associated with Crohn's disease**

Bruce Yacyshyn, Daniel C. Ginsberg, Kye Gilder, Brandon Walsh, Brett English, Stewart A. Turner, Preston Klassen, Stephen B. Hanauer, Charles F. Barish, **Peter D.R. Higgins**

Su1963

**Amino acid sensing is an essential mechanism of mTORC1 activation in colorectal tumorigenesis**

Sumeet A. Solanki, Jun-Hee Lee, **Yatrik Madhukar Shah**

Su1990

**Fusobacterium nucleatum infection associates with two types of microsatellite alterations in colorectal cancers (CRC)**

**Minoru Koi**, Yoshiki Okita, Yoshinaga Okugawa, Takahito Kitajima, Yuji Toiyama, Erika Koeppe, **Elena M. Stoffel**, **John M. Carethers**

Su1996

**Altered gut microbiota induced by a dietary emulsifier degrades the colonic mucus barrier and promotes visceral hypersensitivity**

**Dabo Xu**, Xiaoyin Wu, **Merritt Gilliland**, Weiyang Zheng, Xiaomin Hu, Eric Martens, **Chung Owyang**

Su2004

**Disruption of circadian rhythm reduces thermogenesis in brown adipose tissue, leading to abnormal weight gain and development of metabolic syndrome. Mediation by gut dysbiosis and endotoxemia.**

Xiaomin Hu, **Ji-Yao Li**, Xiaoyin Wu, **Shi-Yi Zhou**, **Merritt Gilliland**, Xu Han, Weiyang Zheng, **Chung Owyang**

## SUNDAY, MAY 19 (cont'd)

Su2047

**Functional lumen imaging probe is useful for the quantification of gastric sleeve stenosis and prediction of response to endoscopic dilation**

**Jessica X. Yu**, Jason Baker, **Joan W. Chen**, **Ryan Law**, **Amar B. Mandalia**, **Joel H. Rubenstein**, Lydia Watts, Shelby A. Sullivan, **Allison R. Schulman**

Su2055

**Characterizing intestinal strictures of Crohn's disease with a capsule-shaped acoustic resolution photoacoustic endoscope**

Guan Xu, Hao Lei, Laura Johnson, Kathryn A. Eaton, Shengchun Liu, Jun Ni, Xueding Wang, **Peter D.R. Higgins**

## MONDAY, MAY 20

6:30 – 7:45 AM • Breakfast Connections 28CD

**Running a GI motility lab**

**Joan W. Chen**, Abraham Khan

8:00 – 9:30 AM • Research Forum 30

**Prediction of Therapeutic Outcomes in IBD**

Moderators: **Kelly C. Cushing**, Jenny Sauk

8:00 - 9:30 AM • Research Forum 8

**Hepatotoxicity and Metabolic/Genetic Diseases**

Moderators: **Lily Dara**, **Robert J. Fontana**

8:00 – 9:30 AM 31A

AGA Committee-Sponsored Symposium

**Best of AGA at DDW in Chinese**

Moderators: **John Y. Kao**, Shutian Zhang

8:00 AM • AGA Clinical Symposium 3

**ALD: Epidemic in the young**

**Elliot Benjamin Tapper**

8:15 AM • Research Forum 11A

**Deep learning models accurately predict development of HCC in 146,218 patients with chronic hepatitis C**

George N. Ioannou, Weijing Tang, Lauren Beste, **Monica A. Konerman**, **Grace L. Su**, Tony Van, **Elliot B. Tapper**, Amit G. Singal, Ji Zhu, **Akbar K. Waljee**



# MONDAY, MAY 20 (cont'd)

8:22 AM 33ABC

AGA Committee-Sponsored Symposium

## Role of probiotics in the management of GI disease: Highlights from the AGA guideline

*Purna Kashyap, Grace L. Su*

8:30 AM 31A

AGA Committee-Sponsored Symposium

## Best of AGA at DDW in Chinese • Best basic abstracts

*John Y. Kao*

8:45 AM • Research Forum 24ABC

## The age to stop endoscopic surveillance of Barrett's esophagus: A cost-effectiveness analysis

*Amir-Houshang Omidvari, Minyi Lee, Steffie K. Naber, William D. Hazelton, Chung Yin Kong, Ellen Richmond, Joel H. Rubenstein, Georg Luebeck, John M. Inadomi, Chin Hur, Iris Lansdorp-Vogelaar*

9:00 AM • Research Forum 24ABC

## Overuse of surveillance endoscopy for Barrett's esophagus in individuals with limited life expectancy

*Joel H. Rubenstein, Mohamed Noureldin, Anna Tavakkoli, Chin Hur, John M. Inadomi, Iris Lansdorp-Vogelaar, Amir-Houshang Omidvari, Elissa Ozanne, Sameer D. Saini, Akbar K. Waljee*

10:00 – 11:30 AM 7

ASGE Clinical Symposium

## Tackling Complex ERCP

Moderators: *Grace H. Elta, Joanna K. Law*

10:00 – 11:30 AM 27AB

AGA Research Symposium

## Defining Gastrointestinal Inflammation at the Organellar Level

Moderators: *Aida Habtezion, Yatrik M. Shah*

10:00 – 11:30 AM 29B

AGA Research Symposium

## Microphysiological Systems to Model the Neural-Epithelial Axis in the Gut

Moderators: *Tracy Grikscheit, Jason Spence*

10:00 AM 33ABC

AGA Committee-Sponsored Symposium

## The business of GI practice 101

*John I. Allen*

10:00 AM • Topic Forum 4

## Gastric peroral endoscopic myotomy (G-POEM) for the treatment of refractory gastroparesis: Results from the first international prospective trial

*Kia Vosoughi, Yervant Ichkhanian, Petros C. Benias, Larry S. Miller, A. Aziz Aadam, Joseph Triggs, Ryan Law, Dalton Chaves, Alberto M. da Ponte, Peter V. Draganov, Andrey I Kotzev, Maan El Halabi, Omid Sanaei, Olaya I. Brewer Gutierrez, John E. Pandolfino, Anthony N. Kalloo, Mouen A. Khashab*

10:00 AM • DDW Clinical Symposium 32AB

## Cholangiocarcinoma: Definitions and pathogenesis

*Nataliya Razumilava*

10:53 AM 20BCD

## AGA Presidential Plenary

Julius Friedenwald Medal presentation to *John I. Allen*

11:15 AM • Research Forum 30

## Neutrophils restrict tumor-associated microbiota to dampen colon tumor growth and invasion

*Daniel Triner, Samantha Devenport, Yatrik M. Shah*

12:15 – 1:15 PM Sails Pavilion

Interactive Education: DDW Trainee & Early Career Lounge: Meet the Expert

## Practical issues of career choice, contracting, and suture payment models

*John I. Allen*

2:00 – 3:00 PM 6DE

AASLD State-of-the-Art Lecture

## Drug-Induced Liver Injury in GI Practice

Moderator: *Robert J. Fontana*

2:00 PM • ASGE Clinical Symposium 7

## Training in endobariatrics therapy: Who, what, where, and how

*Allison R. Schulman*

2:00 PM • Research Forum 11A

## Elevated HCC risk persists for up to 10 years after hepatitis C eradication in patients with baseline cirrhosis and elevated FIB-4 score

*George N. Ioannou, Amit G. Singal, Elliot B. Tapper, Akbar K. Waljee, Richard K. Sterling, Jordan J. Feld, David E. Kaplan, Tamar H. Taddei, Lauren Beste, Pamela Green, Kristin Berry*

2:00 PM • Research Forum 29B

## Escherichia coli heat-stable toxin impairs colonic epithelial barrier function via cGMP-induced oxidative stress, apoptosis, and NF-κB activation

*Ting Zheng, Shi-Yi Zhou, Sha Huang, Jason Spence, Chung Owyang*

2:30 PM • Topic Forum 6C

## Endoluminal functional lumen imaging probe (EndoFLIP) predicts the outcome of gastric per-oral endoscopic pyloromyotomy (G-POEM): A multicenter prospective study

*Kia Vosoughi, Yervant Ichkhanian, Jérémie Jacques, Olivier Ragi, A. Aziz Aadam, Joseph Triggs, Petros C. Benias, Ryan Law, Nicole Bowers, Olaya I. Brewer Gutierrez, Saowanee Ngamruengphong, Vivek Kumbhari, Anthony N. Kalloo, John E. Pandolfino, Mouen A. Khashab*

3:06 PM • AGA Clinical Symposium 26AB

## When to test for H. pylori antibiotic resistance?

*John Y. Kao*

3:30 PM 24ABC

AGA Committee-Sponsored Symposium

## Improving vaccination adherence in inflammatory bowel diseases (poster presentation)

*Ted Walker, Alex Thomas, Kelly C. Cushing, Michael C. Bennett, Ricardo Badillo, Gregory S. Sayuk, C. Prakash Gyawali, Deborah Rubin, Cynthia Cherfan, Parakkal Deepa, Matthew A. Ciorba, George Christophi*

4:00 – 5:30 PM 29A

Distinguished Abstract Plenary

## Cellular & Molecular Gastroenterology Section Distinguished Abstract Plenary:

Stem Cells and Differentiated Cell Plasticity in Metaplasia and Regeneration

Moderators: *Jason Mills, Linda C. Samuelson*

4:00 – 5:30 PM

31A

Distinguished Abstract Plenary

**Neurogastroenterology & Motility Distinguished Abstract Plenary**Moderators: *John Pandolfino, John Wiley*

4:12 PM • SSAT Quick Shots

28CD

**Risk of medical complications following bariatric surgery is elevated in patients with immunologic diseases***Jessica Jou, Allison R. Schulman, Jonathan F. Finks, Amir A. Ghaferi, Oliver Adrian Varban, Ryan W. Stidham*

4:15 PM • ASGE Clinical Symposium

6C

**Confronting unconscious bias and strategies to address it***John M. Carethers*

4:30 PM • Topic Forum

4

**Development and initial validation of an instrument for video-based assessment of technical skill in ERCP***Badih Joseph Elmunzer, Gretchen Guiton, Catharine M. Walsh, Jose Serrano, Amitabh Chak, Steven A. Edmundowicz, Richard Kwon, Daniel Mullady, Georgios I. Papachristou, Grace H. Elta, Todd H. Baron, Patrick Yachinski, Evan L. Fogel, Jason Taylor, Vikesh Singh, Shyam Varadarajulu, Field F. Willingham, Gregory A. Cote, Peter B. Cotton, Violette C. Simon, Rebecca Spitzer, Rajesh N. Keswani, Sachin B. Wani*

4:45 PM • Research Forum

20A

Patricia and Ralph Giannella Lecture: All About JAK (Inhibitors) in IBD

**Efficacy of upadacitinib as an induction therapy for patients with moderately to severely active ulcerative colitis, with or without previous treatment failure of biologic therapy: Data from the dose-ranging phase 2B study U-ACHIEVE***Remo Panaccione, Geert R. D'Haens, William J. Sandborn, Subrata Ghosh, Stefan Schreiber, Satoshi Tanida, Wen Zhou, Fabio Cataldi, David Pugatch, Bidan Huang, Wangang Xie, Peter D. Higgins*

4:49 PM

31A

**AGA Distinguished Abstract Plenary**  
Neurogastroenterology & Motility**Gut dysbiosis contributes to visceral hypersensitivity in irritable bowel syndrome via regulation of the levels of resolvin D1 in the colonic mucosa***Gintautas Grabauskas, Xiaoyin Wu, Karissa D. Kao, Chung Owyang***POSTER SESSIONS • Monday**

Mo1074

**Comprehensive case-matched study on adverse events associated with gastric per oral endoscopic myotomy***Yervant Ichkhanian, Kia Vosoughi, Mohamad Aghaie Meybodi, Jeremie Jacques, Amrita Sethi, Anish Patel, A. Aziz Aadam, Joseph Triggs, Petros C. Benias, Dalton Chaves, Maximilien Barret, Ryan Law, Nicole Bowers, Mathieu Pioche, Peter V. Draganov, Andrey I Kotzev, Eduardo Albeniz, Fermin Estremera, Michael Ujiki, Zachary M. Callahan, Amol Bapaye, Shivangi Dorwat, Olaya I. Brewer Gutierrez, Mouen A. Khashab*

Mo1155

**Patterns of care in the management of eosinophilic esophagitis***Joy W. Chang, Samuel R. Olson, Ju Young Kim, Joel Greenson, Joan W. Chen, Georgiana Sanders, Joel H. Rubenstein*

Mo1196

**Long term quality of life among patients with neoplastic Barrett's esophagus following endoscopic therapy compared to esophagectomy***Chanakyaram A. Reddy, Anna Tavakkoli, Vincent L. Chen, Sheryl J. Korsnes, Aarti Bedi, Philip W. Carrott, Andrew C. Chang, Kiran H. Lagisetty, Richard Kwon, B. Joseph Elmunzer, Mark B. Orringer, Cyrus Piraka, Anoop Prabhu, Rishi M. Reddy, Erik Wamsteker, Joel H. Rubenstein*

Mo1451

**Liquid biopsy for prognosis in hepatocellular carcinoma (HCC) using circulating tumor cells (CTCS): A systematic review and meta-analysis***Vincent L. Chen, Dabo Xu, Ramdane Harouaka, Max Wicha, Anna Lok, Neehar D. Parikh*

Mo1565

**Confocal laser endomicroscopy in patients with functional dyspepsia: Does "leaky gut" play a role?***Borko Nojkov, Russell Dolan, Julia J. Liu, Henry D. Appelman, Thomas Wang, Matthew B. Sturm, William D. Chey*

Mo1572 • Poster of Distinction

**Delayed gastric emptying by wireless motility capsule but not scintigraphy is associated with worse symptom severity scores***Allen Lee, Henry P. Parkman, Irene Sarosiek, Linda Anh Bui Nguyen, Michael I. Schulman, Baha Moshiree, Richard W. McCallum, John Man-Ho Wo, Satish S.C. Rao, William L. Hasler, Braden Kuo*

Mo1591

**Does other end-organ damage correlate with risk of gastroparesis in diabetics?***Henry P. Parkman, Laura Wilson, Kenneth L. Koch, William L. Hasler, Linda Anh Bui Nguyen, Thomas Abell, William J. Snape, John O. Clarke, Braden Kuo, Richard W. McCallum, Irene Sarosiek, Madhusudan Grover, Gianrico Farrugia, James Tonascia, Frank A. Hamilton, Pankaj J. Pasricha*

Mo1592

**Marijuana use in patients with symptoms of gastroparesis: Prevalence, patient characteristics, and perceived benefit***Henry P. Parkman, Emily Sharkey, Linda Anh Bui Nguyen, Katherine Parker Yates, William J. Snape, John O. Clarke, William L. Hasler, Kenneth L. Koch, Richard W. McCallum, Irene Sarosiek, Thomas Abell, Madhusudan Grover, Gianrico Farrugia, Braden Kuo, James Tonascia, Frank A. Hamilton, Pankaj J. Pasricha*

Mo1604

**Comparison of symptom and quality of life outcomes over 6 months in suspected gastroparesis due to diabetic vs. non-diabetic etiology: Importance of diabetic subtype and gastric emptying delays***William L. Hasler, Braden Kuo, Allen Lee, Linda Anh Bui Nguyen, Baha Moshiree, Henry P. Parkman, John Man-Ho Wo, Michael I. Schulman, Richard Krause, Irene Sarosiek, Richard W. McCallum, Satish S.C. Rao*

**MONDAY, MAY 20** (cont'd)**Mo1718 • Poster of Distinction****Racial and geographic disparities in pancreatic cancer incidence and mortality in the United States**

Anna Tavakkoli, Amit G. Singal, **Akbar K. Waljee**, B. Joseph Elmunzer, Sandi Pruitt, **Joel H. Rubenstein**, James M. Scheiman, Caitlin C. Murphy

**Mo1730****Butyrate-treated colon organoids from FAP subjects suppress key cancer pathways when ZBP-89 (ZNF148) deleted**

Akash Gupta, Ramon Ocadiz-Ruiz, Durga Attili, Michael K. Dame, Elaine Brady, **D. Kim Turgeon**, Juanita L. Merchant

**Mo1741****Induction of whole genome doubling with MSH3-deficiency in human colon diploid cells**

Satoshi Suzuki, **Minoru Koi**, **John M. Carethers**

**Mo1773****Cost drivers and trends in inflammatory bowel diseases**

K. T. Park, Orna G. Ehrlich, **John I. Allen**, Perry Meadows, Eva Szigethy, Kimberlee Henrichsen, Sandra C. Kim, Rachel Lawton, Sean Murphy, Miguel D. Regueiro, David T. Rubin, Nicole M. Engel-Nitz, Caren Heller

**Mo1817****Responder definitions for the ulcerative colitis patient-reported outcomes signs and symptoms (UC-PRO/SS) tool using patients with ulcerative colitis treated with etrolizumab**

**Peter D.R. Higgins**, Alison Matsui, Kendra DeBusk, Jennifer Pulley, Astrid Scalori, Young S. Oh, Udayasankar Arulmani

**Mo1837****Effect of upadacitinib on extra-intestinal manifestations in patients with moderate to severe Crohn's disease: Data from the CELEST study**

Laurent Peyrin-Biroulet, Silvio Danese, Edouard Louis, **Peter D.R. Higgins**, Marla Dubinsky, Fabio Cataldi, Qian Zhou, Wan-Ju Lee, Kristina Kligys

**MONDAY, MAY 20** (cont'd)**Mo1877****Tumor necrosis factor  $\alpha$  and IL-17a producing CD4<sup>+</sup> tissue resident memory T-cells are expanded in Crohn's and are inhibited by the anti-inflammatory microbial metabolite butyrate**

**Shrinivas Bishu**, **Mohamad El-Zaatari**, Atsushi Hayashi, Guoqing Hou, Nicole Bowers, **Jami A. Kinnucan**, **Beth Manoogian**, **Michelle Muza-Moons**, Min Zhang, Helmut Grasberger, Weiping Zou, **Peter D. Higgins**, **Jason Spence**, **Ryan W. Stidham**, **Nobuhiko Kamada**, **John Y. Kao**

**Mo1927****Citrobacter rodentium induces CD4<sup>+</sup> tissue resident memory T-cells that expand with re-challenge**

**Shrinivas Bishu**, Guoqing Hou, **Mohamad El-Zaatari**, Shreenath Bishu, Min Zhang, Helmut Grasberger, Weiping Zou, **Ryan W. Stidham**, **Peter D. Higgins**, **Jason Spence**, **Nobuhiko Kamada**, **John Y. Kao**

**Mo1945****The influence of pets on risk for Clostridium difficile infection (CDI)**

**Jeffrey Berinstein**, **Calen A. Steiner**, Katelin Roth, Emily Briggs, Krishna Rao, **Peter D. Higgins**

**Mo1962****Morbid obesity increases 30-day readmission and morbidity in Clostridium difficile infection**

**Amar B. Mandalia**, Marwan Samir Abougergi, **Allison R. Schulman**

**Mo2012****High-fat diet reduces brown adipose tissue thermogenesis, which contributes to obesity: Mediation by gut dysbiosis and endotoxemia**

**Ji-Yao Li**, Xiaoyin Wu, **Gintautas Grabauskas**, **Merritt Gilliland**, **Chung Owyang**

**Mo2039****Upper gastrointestinal series after sleeve gastrectomy is unnecessary to evaluate for gastric sleeve stenosis**

**Amar B. Mandalia**, **Jessica Xinyao Yu**, **Allison R. Schulman**

**TUESDAY, MAY 21****6:30 – 7:45 AM • Breakfast Connections 26AB****Road to precision in diet therapy for functional bowel and motility disorders**

**Shanti L. Eswaran**

**8:00 – 9:30 AM • AGA Research Forum 8****Intestinal Fibrosis**

Moderator: **Peter D.R. Higgins**

**8:00 – 9:30 AM 9**

AGA Distinguished Abstract Plenary

**Esophageal, Gastric & Duodenal Disorders Section Distinguished Abstract Plenary**

Moderators: **Ikuo Hirano**, **John Y. Kao**

**8:00 AM • Research Forum 27AB****Inducement of double strand breaks (DSB) triggers differential MSH3 intracellular shuttling based on a poly-alanine-PXXP polymorphism near its nuclear localization signal (NLS)**

**Minoru Koi**, Mikayla Woodard, **Stephanie Tseng-Rogenski**, Satoshi Suzuki, **John M. Carethers**

**8:00 AM • Topic Forum 4****Experience with a novel 30mm hydrostatic balloon in esophageal dysmotility: A multicenter retrospective analysis**

Joshua A. Sloan, Joseph Triggs, John E. Pandolfino, Olaya I. Brewer Gutierrez, **Mohamad H. El Zein**, **Mohamad Dbouk**, Daniella Assis, Farhan Quader, Kia Vosoughi, Yervant Ichkhanian, C. Prakash Gyawali, Ellen M. Stein, **Joel H. Rubenstein**, Mouen A. Khashab

**8:15 AM • Research Forum 29CD****Gut dysbiosis characterized by overabundance of Enterobacteriaceae contributes to gastric pain in diabetic gastroparesis**

**Shi-Yi Zhou**, Ting Yu, Xiaoyin Wu, **Gintautas Grabauskas**, Xiaomin Hu, Sho Kitamoto, **Nobuhiko Kamada**, Nicholas Pudlo, Eric Martens, **Chung Owyang**

**8:44 AM • ASGE/SOBED Clinical Symposium 1****Management of pancreas cysts: Current guidelines**

**Grace H. Elta**



## TUESDAY, MAY 21 (cont'd)

- 8:45 AM • Research Forum 3**  
**miR130b expressed by SLFN4<sup>+</sup>-MDSCs stimulates epithelial proliferation and pre-neoplastic changes**  
*Lin Ding, Qian Li, Andres Munoz, Yana Zavros, Emmanuelle Faure, Dimitrios Iliopoulos, Jayati Chakrabarti, **Juanita L. Merchant***
- 8:48 AM 9**  
**AGA Distinguished Abstract Plenary**  
Esophageal, Gastric & Duodenal Disorders  
**Effects of anti-*Helicobacter pylori* therapy on incidence of autoimmune diseases, including inflammatory bowel diseases**  
*Kun-Der Lin, Guei-Fen Chiu, **Akbar K. Waljee**, Stephanie Y. Owyang, **Mohamad El-Zaatari**, **Shrinivas Bishu**, Helmut Grasberger, Min Zhang, Deng-Chyang Wu, **John Y. Kao***
- 9:15 AM • Research Forum 8**  
**The Bcl-2 inhibitor ABT-263 attenuates intestinal fibrosis in human intestinal organoids and the mouse *S. typhimurium* model**  
*Eva S. Rodansky, Laura Johnson, Benjamin J. Malamet, Sha Huang, Lisa Hazelwood, **Jason Spence**, **Peter D. Higgins***
- 9:41 AM • ASGE Video Plenary - Part II 6AB**  
**Endoscopic reversal of vertical banded gastroplasty—novel use of electroincision**  
***Jessica X. Yu**, **Arpan H. Patel**, **Ryan Law***
- 9:52 AM • ASGE Video Plenary - Part II 6AB**  
**EUS-guided gastroenterostomy to facilitate ERCP in a patient with duodenal switch anatomy**  
***Ryan Law**, Amy Hosmer, **Arjun R. Sondhi**, **Christopher Sonnenday***
- 10:00 – 10:30 AM • ASGE Learning Center Hall E**  
**ASGE 2019 Hot Topic: Video Tips You Can Use With Your Team**  
Notes: ***Michelle A. Anderson***
- 10:00 – 11:30 AM • AGA Research Forum 29CD**  
**Basic Mucosal Mechanisms of Diseases of the Upper GI Tract**  
Moderators: *Hui Dong, **Mohamad El-Zaatari***
- 10:00 – 11:30 AM • AGA Research Forum 9**  
**Functional Dyspepsia, Nausea and Vomiting**  
Moderators: ***William L. Hasler**, **Baha Moshiree***
- 10:00 – 11:30 AM • AASLD Research Forum 11A**  
**Liver Transplantation**  
Moderators: *David C. Mulligan, **Pratima Sharma***
- 10:00 AM • Research Forum 8**  
**Polygenic partial lipodystrophy contributes to nonalcoholic fatty liver disease (NAFLD) and liver fibrosis in the population**  
***Vincent L. Chen**, **Samuel K. Handelman**, Brian Halligan, Yanhua Chen, Xiaomeng Du, **Elizabeth K. Speliotes***
- 10:00 AM • AGA Clinical Symposium 24ABC**  
**Overlap between food intolerances and IBS**  
***William D. Chey***
- 10:00 AM • Research Forum 20BCD**  
**Efficacy and safety of mirikizumab (LY3074828) in a phase 2 study of patients with Crohn's disease**  
*Bruce E. Sands, William J. Sandborn, Laurent Peyrin-Biroulet, **Peter D. Higgins**, Fumihito Hirai, Ruth Belin, Elisa Gomez Valderas, Debra Miller, MaryAnn Morgan-Cox, April N. Naegeli, Paul Pollack, Jay Tuttle, Toshifumi Hibi*
- 10:00 AM • Research Forum 29CD**  
**Primary cilia transduce inflammatory and Hedgehog signaling to modulate gastrin expression and antral hyperplasia**  
*Lin Ding, Qian Li, Andres Munoz, Milena Saqui-Salces, **Juanita L. Merchant***
- 10:15 AM • Topic Forum 2**  
**Living on the edge – success, long-term complications, and implications following EUS-directed transgastric ERCP: A multicenter study**  
*Thomas M. Runge, Thomas E. Kowalski, Todd H. Baron, Austin L. Chiang, Theodore James, Alexander Schlachterman, David E. Loren, Jose Nieto, Harshit S. Khara, David L. Diehl, Bradley Confer, S Vikas Kumar, Shayan S. Irani, John Nasr, Matthew R. Krafft, William*
- Hsueh, **Ryan Law**, **Arpan H. Patel**, Tyler Stevens, Prabhleen Chahal, Mohammad A. Al-Haddad, Douglas K. Pleskow, Mir Fahad Faisal, Matthew T. Huggett, Arvind Trindade, Yervant Ichkhanian, Kia Vosoughi, Olaya I. Brewer Gutierrez, Juliana Yang, Mohamad Dbouk, Saowanee Ngamruengphong, Vivek Kumbhari, Vikesh Singh, Anthony N. Kalloo, Mouen A. Khashab*
- 11:00 AM • Research Forum 8**  
**Long-term sustainability of outcomes following completion of a structured lifestyle intervention program for patients with metabolic syndrome and non-alcoholic fatty liver disease**  
***Monica A. Konerman**, Min Zhang, Megan S. Joseph, Samantha Fink, **Anna Lok**, Melvyn Rubenfire*
- 11:12 AM • Research Forum 9**  
**Cyclic Vomiting Syndrome Practice Guidelines Committee survey of cannabinoid hyperemesis syndrome criteria: Relation to published case series and individual reports**  
***William L. Hasler**, B. U. Li, David J. Levinthal, Sally E. Tarbell, Kathleen A. Adams, Robert Isenman, Irene Sarosiek, Safwan Jaradeh, Ravi Sharaf, Shahnaz Sultan, Christopher D. Stave, Thangam Venkatesan*
- 12:30 – 1:45 PM 25ABC**  
Meet the Professor Luncheon  
**When to test for *H. pylori* antibiotic resistance**  
***John Y. Kao***
- 2:44 PM • AGA Translational Symposium 29B**  
**Central and peripheral stress pathways and effects on barrier function**  
***John W. Wiley***
- 3:00 PM • Topic Forum 6C**  
**Prospective, multi-center 2 year study to determine the influence of high-level disinfection alone versus ethylene oxide sterilization with high-level disinfection on endoscopic ultrasound (EUS) imaging**  
*Shounak Majumder, Zaiyang Long, Alexander W. Hooke, Bret T. Petersen, Ferga C. Gleeson, Marco J. Bruno, John M. DeWitt, **Grace H. Elta**, Larissa L. Fujii-Lau, Victoria Gomez, Laurent Palazzo, Vanessa M. Shami, Tyler Stevens, Mark Topazian,*



## TUESDAY, MAY 21 (cont'd)

Maurits Wiersema, Lawrence J. Berglund, Ryan J. Lennon, Joseph J. Larson, Felicity Enders, Jed Frein, Raymond A. Yates, Nicholas J. Hangiandreou, Michael J. Levy

4:00 – 5:30 PM • AGA Research Forum 29A

### **H. pylori Host Response/Mucosal Defense, Injury, and Repair**

Moderators: **Mohamad El-Zaatari**, Steven F. Moss

## POSTER SESSIONS • Tuesday

### Tu1004

**Fragmented care is prevalent among patients with readmission following bariatric surgery and is associated with increased cost**

**Allison R. Schulman**, Marwan Samir Abougergi

### Tu1021

**Distance of travel to the site of screening colonoscopy does not impact bowel preparation quality or adenoma detection**

**Keith Naylor**, **Amit Gupta**

### Tu1027

**Esophageal manometry competency program improves performance in motility diagnostics in gastroenterology fellows**

Kelli DeLay, John E. Pandolfino, Alexander Kaizer, C. Prakash Gyawali, Jeanetta Frye, Paul Menard-Katcher, Andrew J. Gawron, Kathryn A. Peterson, Joshua A. Sloan, Dustin Carlson, **Joan W. Chen**, Amy N. Stratton, David C. Kunkel, Abraham Khan, David A. Leiman, Zoe Van De Voorde, Rena H. Yadlapati

### Tu1172 • Poster of Distinction

**Incomplete response of symptoms of gastroesophageal reflux disease to proton pump inhibitors poorly predicts erosive esophagitis and Barrett's esophagus**

**Joel H. Rubenstein**, Li Jiang, **Jacob E. Kurlander**, **Joan W. Chen**, Valbona Metko, Maryam Khodadost, Kimberly Nofz, Trivellore Raghunathan

### Tu1257

**Esophageal histopathologic patterns in patients undergoing per-oral endoscopic myotomy (POEM)**

**Chanakyaram A. Reddy**, **Ryan Law**, Henry D. Appelman, Andrew C. Chang, Sheryl J. Korsnes, **Joan W. Chen**

### Tu1482

**Application of deep learning models to predict progression to cirrhosis among veterans with chronic hepatitis C**

**Monica A. Konerman**, Weijing Tang, George N. Ioannou, Lauren Beste, **Grace L. Su**, Tony Van, **Elliot Benjamin Tapper**, **Sameer Dev Saini**, Brahmajee Nallamothu, Ji Zhu, **Akbar K. Waljee**

### Tu1487

**Factors associated with lack of improvement of patient reported outcomes (PRO) in chronic hepatitis C (CHC) patients with sustained virologic response (SVR)**

Maria Stepanova, **Elliot Benjamin Tapper**, Edward Gane, Mark S. Sulkowski, Marc Bourliere, Zobair M. Younossi

### Tu1496

**Democratic deliberation to assess veteran preferences on allocation of healthcare resources for chronic hepatitis C treatment**

**Akbar K. Waljee**, Kerry A. Ryan, **Monica A. Konerman**, Lauren Beste, George N. Ioannou, **Grace L. Su**, **Sameer Dev Saini**, Maria Hughes, Amanda Ellis, Pia Roman, Chris Krenz, Raymond De Vries

### Tu1585

Hepatitis C eradication reduces the risk of developing hepatic encephalopathy and increases the likelihood of resolution of pre-treatment hepatic encephalopathy

**Elliot Benjamin Tapper**, **Neehar Dilip Parikh**, Pamela Green, Kristin Berry, **Akbar K. Waljee**, Andrew M. Moon, George N. Ioannou

### Tu1609 • Poster of Distinction

**How often do gastroenterologist's screen for psychological trauma? Identifying the unmet need.**

**Christina H. Jagielski**, **Megan E. Riehl**, **William D. Chey**

### Tu1727

**Rapidity of symptomatic and inflammatory biomarker improvements following upadacitinib induction treatment: Data from the U-ACHIEVE study**

Geert R. D'Haens, Edward V. Loftus, **Peter D.R. Higgins**, Julian Panes, Remo Panaccione, Wen Zhou, Fabio Cataldi, Wan-Ju Lee, Bidan Huang, Wangang Xie, Severine Vermeire

### Tu1794

**Adherent-invasive Escherichia coli colonization promotes intestinal fibrosis via activation of IL-33/ST2 signaling**

Jin Imai, Sho Kitamoto, Hiroko Nagao-Kitamoto, Atsushi Hayashi, Tina Morhardt, Peter Kuffa, **Peter D.R. Higgins**, Nicolas Barnich, **Nobuhiko Kamada**

### Tu1817

**Increasing subcutaneous fat and weight are correlated with reduced adalimumab drug levels in patients with inflammatory bowel disease**

**Ryan W. Stidham**, Brian A. Derstine, Binu Enchakalody, **Akbar K. Waljee**, **Peter D.R. Higgins**, Sullivan A. June, **Grace L. Su**, Stewart C. Wang

### Tu1927

**Venous thromboembolism during index admission for Roux-en-Y gastric bypass increases one year mortality**

**Jessica Xinyao Yu**, Marwan Samir Abougergi, **Allison R. Schulman**

### Tu1983

**EUS-guided creation of entero-enterostomy using lumen apposing metal stents for pancreaticobiliary access in non-RYGB surgical anatomy patients**

Juliana Yang, Theodore James, Todd H. Baron, Shayan S. Irani, William Hsueh, John Nasr, Enad Dawod, Qais Maher Dawod, Kaveh Hajifathalian, Reem Z. Sharaiha, **Ryan Law**, Andreas Wannhoff, Karel Caca, Douglas G. Adler, Kia Vosoughi, Yervant Ichkhanian, Olaya I. Brewer Gutierrez, Mouen A. Khashab



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