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

#### 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 (PUCCINI)

Benjamin L. Cohen, Phillip Fleshner, Sunanda V. Kane, Hans H. Herfarth, Nicole Palekar, Francis A. Faraye, 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, Ruji Huang, Mayte Suarez-Farinaz, 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 355 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.

#### 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 polysaturated fatty acids that generate 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 50% 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.

#### 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, Shrinnivas 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.

#### A novel R-spondin1/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 Rspo1/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.

#### Is sucrose the sixth FODMAP in a subset of patients with irritable bowel syndrome with diarrhea and sucrase-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 sucrase–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.
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.
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.
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
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<td>Richard S. Kwon, MD, MS</td>
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<td>Juanita L. Merchant, MD, PhD</td>
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<td>Linda C. Samuelson, PhD</td>
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<td>AGA Institute Council Morton I. Grossman Lectureship</td>
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<td>Tadataka Yamada, MD</td>
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<td>William D. Chey, MD</td>
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<td>Andrea Todisco, MD</td>
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<td>Gastric Biology Related to Cancer Biology</td>
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<td>Chung Owyang, MD</td>
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## 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 sucrase isomaltase deficiency?

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

### 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**

**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, 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

### 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

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<td>Hall H</td>
<td>ASGE Hands On Workshop</td>
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<td>Bariatric Therapies</td>
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<td>Shelby A. Sullivan, Barham K. Abu Dayeh, Nitin Kumar, Rachel L. Moore, Vivek Kumbhari, Eduardo Grecco, Manoel Galvao Neto, Gontrand Lopez-Nava, Marvin Ryou, <strong>Allison R. Schulman</strong></td>
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<td>12:00 PM</td>
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<td>ASGE Hands On Workshop</td>
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### Breakfast Connections

**Monday, May 20, 2019**

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<td>28CD</td>
<td>Running a GI motility lab</td>
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<td><strong>Joan W. Chen</strong>, Abraham Khan</td>
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### Tuesday, May 21, 2019

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<td>26AB</td>
<td>Road to precision in diet therapy for functional bowel and motility disorders</td>
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<td><strong>Shanti L. Eswaran</strong></td>
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## Meet the Professor

**Tuesday, May 21, 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event Description</th>
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</thead>
<tbody>
<tr>
<td>12:30 – 1:45 PM</td>
<td>25ABC</td>
<td>Meet the Professor Luncheon</td>
</tr>
<tr>
<td></td>
<td></td>
<td>When to test for <em>H. pylori</em> antibiotic resistance</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>John Y. Kao</strong></td>
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## ASGE Video Sessions

### Tuesday, May 21, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event Description</th>
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</thead>
<tbody>
<tr>
<td>9:41 AM</td>
<td>6AB</td>
<td>ASGE Video Plenary - Part II</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Endoscopic reversal of vertical banded gastroplasty—novel use of electroincision</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Jessica X. Yu</strong>, <strong>Arpan H. Patel</strong>, <strong>Ryan Law</strong></td>
</tr>
<tr>
<td>9:52 AM</td>
<td>6AB</td>
<td>ASGE Video Plenary - Part II</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EUS-guided gastroenterostomy to facilitate ERCP in a patient with duodenal switch anatomy</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Ryan Law</strong>, <strong>Amy E. Hosmer</strong>, <strong>Arjun R. Sondhi</strong>, Christopher Sonnenday</td>
</tr>
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## Interactive Education

**Monday, May 20, 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event Description</th>
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</thead>
<tbody>
<tr>
<td>12:15 – 1:15 PM</td>
<td>Sails Pavilion</td>
<td>DDW Trainee &amp; Early Career Lounge: Meet the Expert</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Practical issues of career choice, contracting, and suture payment models</td>
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<tr>
<td></td>
<td></td>
<td><strong>John I. Allen</strong></td>
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## Symposiums

### Saturday, May 18, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event Description</th>
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</thead>
<tbody>
<tr>
<td>8:00 AM</td>
<td>24ABC</td>
<td>AGA Committee-Sponsored Symposium</td>
</tr>
<tr>
<td></td>
<td></td>
<td>How are quality measures developed by AGA?</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Megan A. Adams</strong></td>
</tr>
<tr>
<td>8:00 AM</td>
<td>31A</td>
<td>AGA Committee-Sponsored Symposium</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Global <em>H. pylori</em> prevalence against IBD incidence</td>
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<td></td>
<td></td>
<td><strong>John Y. Kao</strong></td>
</tr>
<tr>
<td>8:00 AM</td>
<td>29CD</td>
<td>AGA Translational Symposium</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The need for isogenic intestinal transplantation and biopsy banking</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Jason Spence</strong></td>
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## Interactive Education

**Monday, May 20, 2019**

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<th>Time</th>
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<tr>
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<td></td>
<td></td>
<td>Practical issues of career choice, contracting, and suture payment models</td>
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<td><strong>John I. Allen</strong></td>
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## Interactive Education

**Monday, May 20, 2019**

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<tr>
<th>Time</th>
<th>Location</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>10:00 AM</td>
<td>26AB</td>
<td>AGA Clinical Symposium</td>
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<tr>
<td></td>
<td></td>
<td>Food as the main course for the irritable bowel syndrome</td>
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<tr>
<td></td>
<td></td>
<td><strong>William D. Chey</strong></td>
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<tr>
<td>10:15 AM</td>
<td>4</td>
<td>AGA Clinical Symposium</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Polypectomy and anticoagulants/antiplatelets: What should I do?</td>
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<tr>
<td></td>
<td></td>
<td><strong>Michelle A. Anderson</strong></td>
</tr>
<tr>
<td>2:00 PM</td>
<td>26AB</td>
<td>AGA Clinical Symposium</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Gut microbial community function and host response in IBD</td>
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<tr>
<td></td>
<td></td>
<td><strong>Nobuhiko Kamada</strong></td>
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### Saturday, May 18, 2019 cont'd

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>3:06 PM</td>
<td>AGA Clinical Symposium 26AB</td>
</tr>
<tr>
<td></td>
<td>Use of monitored anesthesia care in the endoscopy suite</td>
</tr>
<tr>
<td></td>
<td>Megan A. Adams</td>
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<tr>
<td>3:06 PM</td>
<td>AGA Clinical Symposium 3</td>
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<tr>
<td></td>
<td>Therapeutic biliary EUS: Ready for prime time?</td>
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<tr>
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<td>Ryan Law</td>
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<tr>
<td>5:20 PM</td>
<td>AGA Committee-Sponsored Symposium</td>
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<tr>
<td></td>
<td>Roundtable Discussions: 1. Unconscious/implicit bias; 2: Patient to provider bias</td>
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<tr>
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<td>Ibironke Oduyebo</td>
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### Sunday, May 19, 2019

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:15 AM</td>
<td>DDW Clinical Symposium 32AB</td>
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<tr>
<td></td>
<td>What to do after negative endoscopic evaluations in obscure GI bleeding?</td>
</tr>
<tr>
<td></td>
<td>James M. Scheiman</td>
</tr>
<tr>
<td>8:30 AM</td>
<td>AGA Clinical Symposium 25ABC</td>
</tr>
<tr>
<td></td>
<td>Keeping to time and keeping the patient happy</td>
</tr>
<tr>
<td></td>
<td>William D. Chey</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>AGA Clinical Symposium 9</td>
</tr>
<tr>
<td></td>
<td>Artificial intelligence for gastroenterologists: A primer</td>
</tr>
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<td></td>
<td>Peter D.R. Higgins</td>
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<tr>
<td>10:44 AM</td>
<td>ASGE Clinical Symposium 7</td>
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<tr>
<td></td>
<td>Overcoming benign strictures</td>
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<td></td>
<td>Michelle A. Anderson</td>
</tr>
<tr>
<td>10:51 AM</td>
<td>DDW Clinical Symposium 32AB</td>
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<tr>
<td></td>
<td>Endoscopic treatment of esophageal diverticulum: What is the best approach?</td>
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<tr>
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<td>Ryan Law</td>
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<tr>
<td>11:05 AM</td>
<td>AASLD Clinical Symposium 6DE</td>
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<tr>
<td></td>
<td>Non-surgical treatment of HCC and cholangiocarcinoma</td>
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<td>Neehar Dilip Parikh</td>
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### Monday, May 20, 2019 cont'd

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>10:00 AM</td>
<td>AGA Committee-Sponsored Symposium 33ABC</td>
</tr>
<tr>
<td></td>
<td>The business of GI practice 101</td>
</tr>
<tr>
<td></td>
<td>John I. Allen</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>ASGE Clinical Symposium 7</td>
</tr>
<tr>
<td></td>
<td>Training in endobariatrics therapy: Who, what, where, and how</td>
</tr>
<tr>
<td></td>
<td>Allison R. Schulman</td>
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<tr>
<td>3:00 PM</td>
<td>AGA Committee-Sponsored Symposium</td>
</tr>
<tr>
<td></td>
<td>Improving vaccination adherence in inflammatory bowel diseases (poster presentation)</td>
</tr>
<tr>
<td></td>
<td>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</td>
</tr>
<tr>
<td>3:00 PM</td>
<td>AASLD Clinical Symposium 6DE</td>
</tr>
<tr>
<td></td>
<td>Confronting unconscious bias and strategies to address it</td>
</tr>
<tr>
<td></td>
<td>John M. Carethers</td>
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### Tuesday, May 21, 2019

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:44 AM</td>
<td>ASGE/SOBEED Clinical Symposium 1</td>
</tr>
<tr>
<td></td>
<td>Management of pancreas cysts: Current guidelines</td>
</tr>
<tr>
<td></td>
<td>Grace H. Elta</td>
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<tr>
<td>10:00 AM</td>
<td>AGA Clinical Symposium 24ABC</td>
</tr>
<tr>
<td></td>
<td>Overlap between food intolerances and IBS</td>
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<tr>
<td></td>
<td>William D. Chey</td>
</tr>
<tr>
<td>2:44 PM</td>
<td>AGA Translational Symposium 29B</td>
</tr>
<tr>
<td></td>
<td>Central and peripheral stress pathways and effects on barrier function</td>
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<td>John W. Wiley</td>
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</table>
Saturday May 18, 2019

8:00 AM • Research Forum
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
Discontinuity of care among inflammatory bowel disease patients in a large integrated healthcare system

4:59 PM • Topic Forum
Electrocautery setting does not affect efficacy and safety of endoscopic resection of large colorectal polyps

5:00 PM • Research Forum
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
State of the art: Gender disparity in GI practice
Grace H. Elta

Sunday, May 19, 2019

8:15 AM • Research Forum
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, Chong Owyang

8:54 AM • Research Forum
Avoidant/restrictive food intake disorder among adult gastroenterology behavioral health patients: Demographic and clinical characteristics
Kimberly N. Harer, Christina H. Jangielski, Megan E. Riehl, William D. Chey

9:15 AM • Research Forum
Dietary serine regulates the integrity of intestinal mucus barrier during intestinal inflammation
Kohei Sugihara, Nobuhiko Kamada

10:45 AM • Research Forum
Using deep learning for automated grading of endoscopic disease severity in ulcerative colitis

11:00 AM • Research Forum
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
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

5:00 PM • Research Forum
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
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
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
The age to stop endoscopic surveillance of Barrett’s esophagus: A cost-effectiveness analysis
<table>
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<tr>
<th>Monday, May 20, 2019 cont’d</th>
<th>Monday, May 20, 2019 cont’d</th>
<th>Tuesday, May 21, 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>9:00 AM • Research Forum</strong></td>
<td><strong>4:30 PM • Topic Forum</strong></td>
<td><strong>8:00 AM • Research Forum</strong></td>
</tr>
<tr>
<td>Overuse of surveillance endoscopy for Barrett's esophagus in individuals with limited life expectancy</td>
<td>Endoluminal functional lumen imaging probe (EndoFLIP) predicts the outcome of gastric per-oral endoscopic pyloromyotomy (G-POEM): A multicenter prospective study</td>
<td>Inducement of double strand breaks (DSB) triggers differential MSH3 intracellular shuttling based on a poly-alanine-PXXP polymorphism near its nuclear localization signal (NLS)</td>
</tr>
<tr>
<td><strong>10:00 AM • Topic Forum</strong></td>
<td><strong>4:45 PM • Research Forum</strong></td>
<td><strong>8:00 AM • Topic Forum</strong></td>
</tr>
<tr>
<td>Gastric peroral endoscopic myotomy (G-POEM) for the treatment of refractory gastroparesis: Results from the first international prospective trial</td>
<td>Development and initial validation of an instrument for video-based assessment of technical skill in ERCP</td>
<td>Experience with a novel 30mm hydrostatic balloon in esophageal dysmotility: A multicenter retrospective analysis</td>
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<tr>
<td><strong>11:15 AM • Research Forum</strong></td>
<td><strong>4:55 PM • Research Forum</strong></td>
<td><strong>8:15 AM • Research Forum</strong></td>
</tr>
<tr>
<td>Neutrophils restrict tumor-associated microbiota to dampen colon tumor growth and invasion</td>
<td>Patricia and Ralph Giannella Lecture: All About JAK (Inhibitors) in IBD</td>
<td>Gut dysbiosis characterized by overabundance of Enterobacteriaceae contributes to gastric pain in diabetic gastroparesis</td>
</tr>
<tr>
<td><strong>2:00 PM • Research Forum</strong></td>
<td><strong>8:45 AM • Research Forum</strong></td>
<td><strong>9:15 AM • Research Forum</strong></td>
</tr>
<tr>
<td>Escherichia coli heat-stable toxin impairs colonic epithelial barrier function via cGMP-induced oxidative stress, apoptosis, and NF-κB activation</td>
<td>miR130b expressed by SLFN4+ MDSCs stimulates epithelial proliferation and pre-neoplastic changes</td>
<td>The Bcl-2 inhibitor ABT-263 attenuates intestinal fibrosis in human intestinal organoids and the mouse S. typhimurium model</td>
</tr>
<tr>
<td><strong>2:00 PM • Research Forum</strong></td>
<td></td>
<td>John M. Carethers</td>
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<tr>
<td>Elevated HCC risk persists for up to 10 years after hepatitis C eradication in patients with baseline cirrhosis and elevated FIB-4 score</td>
<td></td>
<td>Mouen A. Khashab</td>
</tr>
</tbody>
</table>
Efficacy and safety of mirikizumab (LY3074828) in a phase 2 study of patients with Crohn’s disease

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

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

Living on the edge - success, long-term complications, and implications following EUS-directed transgastric ERCP: A multicenter study
### Saturday, May 18, 2019 (cont’d)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Code</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>3:45 PM</td>
<td>20ABCD</td>
<td>AGA Postgraduate Course General Session</td>
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<tr>
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<td>Panel Q &amp; A</td>
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<td>David A. Katzka, Linda Anh B. Nguyen, Michael Camilleri, William D. Chey</td>
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<tr>
<td>4:00 – 5:30 PM</td>
<td>6AB</td>
<td>ASGE Clinical Symposium</td>
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<td>Colorectal Cancer: New Technologies, New Guidelines</td>
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<td>Moderators: John M. Carethers, Linda C. Cummings</td>
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### Sunday, May 19, 2019

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<tbody>
<tr>
<td>8:00 – 9:30 AM</td>
<td>30</td>
<td>AGA Research Forum</td>
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<tr>
<td></td>
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<td>IBD: Microbiome</td>
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<td>Moderators: Jessica Allegretti, Nobuhiko Kamada</td>
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<tr>
<td>8:00 – 9:30 AM</td>
<td>6DE</td>
<td>AASLD Plenary Session</td>
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<td></td>
<td>Liver Plenary I</td>
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<td>Moderators: Jorge A Bezerra, Grace L. Su</td>
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<tr>
<td>9:00 – 11:30 AM</td>
<td>Hall H</td>
<td>ASGE Hands-on</td>
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<td>Customized Hands on Lab</td>
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<td>Moderators: Neil Gupta, Ryan Law</td>
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<tr>
<td>2:00 – 3:30 PM</td>
<td>11A</td>
<td>AASLD Research Forum</td>
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<td>Health Services and Outcome Research</td>
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<td>Moderators: Elliot Benjamin Tapper, Natalie Torok</td>
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### Monday, May 20, 2019

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<tr>
<th>Time</th>
<th>Session Code</th>
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<tbody>
<tr>
<td>10:00 – 11:30 AM</td>
<td>7</td>
<td>Clinical Symposium</td>
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<tr>
<td></td>
<td></td>
<td>Tackling Complex ERCP</td>
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<td></td>
<td>Moderators: Grace H. Elta, Joanna K. Law</td>
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<tr>
<td>10:00 – 11:30 AM</td>
<td>27AB</td>
<td>Research Symposium</td>
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<tr>
<td></td>
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<td>Defining Gastrointestinal Inflammation at the Organellar Level</td>
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<td>Moderators: Aida Habtezion, Yatrik M. Shah</td>
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<tr>
<td>2:00 – 3:00 PM</td>
<td>6DE</td>
<td>AASLD State-of-the-Art Lecture</td>
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<tr>
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<td>Drug-Induced Liver Injury in GI Practice</td>
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<td>Moderator: Robert J. Fontana</td>
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<tr>
<td>4:00 – 5:30 PM</td>
<td>29A</td>
<td>Distinguished Abstract Plenary</td>
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<td>Cellular &amp; Molecular Gastroenterology (CMG) Section Distinguished Abstract Plenary</td>
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<td>Stem Cells and Differentiated Cell Plasticity in Metaplasia and Regeneration</td>
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<td>Moderators: Jason Mills, Linda C. Samuelson</td>
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<tr>
<td>8:00 – 9:30 AM</td>
<td>30</td>
<td>Research Forum</td>
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<tr>
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<td>Prediction of Therapeutic Outcomes in IBD</td>
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<tr>
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<td>Moderators: Kelly C. Cushing, Jenny S.</td>
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<tr>
<td>8:00 – 9:30 AM</td>
<td>8</td>
<td>Research Forum</td>
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<tr>
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<td></td>
<td>Hepatotoxicity and Metabolic/Genetic Diseases</td>
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<td>Moderators: Lily Dara, Robert J. Fontana</td>
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<tr>
<td>8:00 – 9:30 AM</td>
<td>31A</td>
<td>Committee Sponsored Symposium</td>
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<tr>
<td></td>
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<td>Best of AGA at DDW in Chinese</td>
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<td>Moderators: John Y. Kao, Shutian Zhang</td>
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Tuesday, May 21, 2019

8:00 – 9:30 AM
AGA Distinguished Abstract Plenary
Esophageal, Gastric & Duodenal Disorders (EGD) Section Distinguished Abstract Plenary
Moderators: Ikuo Hirano, John Y. Kao

8:00 – 9:30 AM
AGA Research Forum
Intestinal Fibrosis
Moderator: Peter D.R. Higgins

10:00 – 11:30 AM
AASLD Research Forum
Liver Transplantation
Moderators: David C. Mulligan, Pratima Sharma

10:00 – 11:30 AM
AGA Research Forum
Basic Mucosal Mechanisms of Diseases of the Upper GI Tract
Moderators: Hui Dong, Mohamad El-Zaatari

10:00 – 11:30 AM
AGA Research Forum
Functional Dyspepsia, Nausea and Vomiting
Moderators: William L. Hasler, Baha Moshiree

10:00 – 10:30 AM
AGA Research Forum
ASGE 2019 Hot Topic: Video Tips You Can Use With Your Team
Notes: Michelle A. Anderson

4:00 – 5:30 PM
AGA Research Forum
H. pylori Host Response/Mucosal Defense, Injury, and Repair
Moderators: Mohamad El-Zaatari, Steven F. Moss

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 Nozf, 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

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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

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

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

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, Mohammad Dbouk, Harshit S. Khara, Tossapol Kersririchairat, Marcia Irene Canto

Su1446
Clinical characteristics of patients with symptoms of gastroparesis and history of pancreatitis

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

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 Koepp, 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

Su2047  
Functional lumen imaging probe is useful for the quantification of gastric sleeve stenosis and prediction of response to endoscopic dilation  

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

Su2065  
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

Su2093  
Long term quality of life among patients with neoplastic Barrett’s esophagus following endoscopic therapy compared to esophagectomy  

Su2099  
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

Su2101  
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

Su2105  
Comprehensive case-matched study on adverse events associated with gastric per oral endoscopic myotomy  

Mo1074  
Comprehensive case-matched study on adverse events associated with gastric per oral endoscopic myotomy  

Mo1155  
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Mo1196  
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Mo1451  
Liquid biopsy for prognosis in hepatocellular carcinoma (HCC) using circulating tumor cells (CTCs): A systematic review and meta-analysis  
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Mo1572 • Poster of Distinction  
Delayed gastric emptying by wireless motility capsule but not scintigraphy is associated with worse symptom severity scores  
**Monday, May 20, 2019 cont’d**

**Mo1591**

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

**Mo1592**

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

**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

**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 Attiti, 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

**Mo1877**

Tumor necrosis factor α and IL-17a producing CD4+ tissue resident memory T-cells are expanded in Crohn’s and are inhibited by the anti-inflammatory microbial metabolite butyrate

**Mo1927**

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

**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

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

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. Sukowski, 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, Needar 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

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

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

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

8:50 AM • DDW Clinical Symposium 32AB
Clinical features and management of inflammatory bowel disease
Robert J. Fontana

8:00 – 9:30 AM • Clinical Symposium 32AB
GI and Liver Complications of Immunotherapies
Moderators: Michael Dougan, Robert J. Fontana

8:00 AM • Research Forum
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 • AGA Committee-Sponsored Symposium
How are quality measures developed by AGA?
Megan A. Adams

8:00 AM • AGA Committee-Sponsored Symposium 24ABC
Tales from the front lines: Translating “best practices” into meaningful quality measures
Moderators: Megan A. Adams, Jeffrey D Mosko

8:00 AM • AGA Committee-Sponsored Symposium 24ABC
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 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

10:15 AM • AGA Clinical Symposium 26AB
Use of monitored anesthesia care in the endoscopy suite
Megan A. Adams

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

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
Therapeutic biliary EUS: Ready for prime time?
Ryan Law

3:06 PM • AGA Clinical Symposium 3
Use of monitored anesthesia care in the endoscopy suite
Megan A. Adams

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

3:27 PM • ASGE Learning Center Hall E
Meet the VideoGIE Top Reviewers: Learn the Art of Reviewing
Notes/Moderators: Ryan Law, Lisa Cassani
Saturdays, 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, Ibironke Oduyebo

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

4:41 PM  29A
Basic Science Quick Shots
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  4
Topic Forum
Electrocautery setting does not affect efficacy and safety of endoscopic resection of large colorectal polyps

5:00 PM  30
Research Forum
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  4
Topic Forum
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
Ibironke 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. Kein, Raymond De Vries, Brian J. Zikmund-Fisher, Yu-Xiao Yang, Loren Lain, Sameer D. Saini

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

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Management patterns for nonacid reflux patients at a large academic medical center
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Determining appropriate reimbursement for innovative endoscopic devices using cost-minimization analysis: Endoscopic suturing to prevent stent migration for benign esophageal strictures
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Sa1276
Utility of esophagram after per-oral endoscopic myotomy (POEM)

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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 Sirirhorachai, 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

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, Jordan Eric Axelrad, Brad Tricomi, Adam S. Faye, Ellen Scherl, Garrett Lawlor, Dana J. Lukin, Jean Frederic Colombo, Marla Dubinsky

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

Sa2039
8:00 – 9:30 AM • AGA Research Forum
IBD: Microbiome
Moderators: Jessica Allegretti, Nobuhiko Kamada

8:00 – 9:30 AM • AASLD Plenary Session
Liver Plenary I
Moderators: Jorge A Bezerra, Grace L. Su

8:15 AM • Research Forum
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
What to do after negative endoscopic evaluations in obscure GI bleeding?
James M. Scheiman

8:30 AM • AGA Clinical Symposium
Keeping to time and keeping the patient happy
William D. Chey

8:54 AM • Research Forum
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
Customized Hands on Lab
Moderators: Neil Gupta, Ryan Law

SUNDAY, MAY 19 (cont’d)

9:15 AM • Research Forum
Dietary serine regulates the integrity of intestinal mucus barrier during intestinal inflammation
Kohei Sugihara, Nobuhiko Kamada

10:00 AM • AGA Clinical Symposium
Artificial intelligence for gastroenterologists: A primer
Peter D.R. Higgins

10:44 AM • ASGE Clinical Symposium
Overcoming benign strictures
Michelle A. Anderson

10:45 AM • Research Forum
Using deep learning for automated grading of endoscopic disease severity in ulcerative colitis

10:50 AM • 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
Endoscopic treatment of esophageal diverticulum: What is the best approach?
Ryan Law

11:00 AM • Research Forum
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
Non-surgical treatment of HCC and cholangiocarcinoma
Neehar Dilip Parikh
2:00 – 3:30 PM • AASLD Research Forum 29B

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 sucrase isomaltase deficiency?
Shanti L. Eswaran, Tenghao Zheng, Mauro D’Amato, William D. Chey

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 must it be so hard? Mast cell disorders of the GI tract
Leslie B. Aldrich

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

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4:00 PM • AGA Clinical Symposium 20A

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Why must 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

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 Section

Distinguished Abstract Plenary

Moderators: Peter D.R. Higgins, Uma Mahadevan

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

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, C. Joyce Daughter, 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
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, Pratima Sharma, Amit G. Singal, Richard A. Redfern

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 orlinab, 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 Koepppe, Elena M. Stoffel, John M. Carethers

Su1996
Altered gut microbiota induced by a dietary emulsifier degrades the colonic mucus barrier and promotes visceral hypersensitivitiy
Dabo Xu, Xiaoqian 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, Xiaoqin 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

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 Sauer

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

Spring 2019 The GI Digest 23
8:22 AM
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
AGA Committee-Sponsored Symposium
Best of AGA at DDW in Chinese • Best basic abstracts
John Y. Kao

8:45 AM • Research Forum
The age to stop endoscopic surveillance of Barrett’s esophagus: A cost-effectiveness analysis

9:00 AM • Research Forum
Overuse of surveillance endoscopy for Barrett’s esophagus in individuals with limited life expectancy

10:00 – 11:30 AM
ASGE Clinical Symposium
Tackling Complex ERCP
Moderators: Grace H. Elta, Joanna K. Law

10:00 AM • Topic Forum
AGA Committee-Sponsored Symposium
The business of GI practice 101
John I. Allen

10:00 AM • Topic Forum
Gas troperal endoscopic myotomy (G-POEM) for the treatment of refractory gastroapraphoria: 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
Cholangiocarcinoma: Definitions and pathogenesis
Nataliya Razumilava

10:53 AM • AGA Presidential Plenary
Julius Friedenwald Medal presentation to John I. Allen

11:15 AM • Research Forum
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
AASLD State-of-the-Art Lecture
Drug-Induced Liver Injury in GI Practice
Moderator: Robert J. Fontana

2:00 PM • ASGE Clinical Symposium
Training in endobariatrics therapy: Who, what, where, and how
Allison R. Schulman

2:00 PM • Research Forum
Elevated HCC risk persists for up to 10 years after hepatitis C eradication in patients with baseline cirrhosis and elevated FIB-4 score

2:30 PM • Topic Forum
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

3:06 PM • AGA Clinical Symposium
When to test for *H. pylori* antibiotic resistance?
John Y. Kao

3:30 PM
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
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
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. Rao, Chung Owyang

Mo1074
Comprehensive case-matched study on adverse events associated with gastric per oral endoscopic myotomy

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

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 Harouuka, Max Wicho, Anna Lok, Neehar D. Parikh

Mo1565
Confocal laser endomicroscopy in patients with functional dyspepsia: Does “leaky gut” play a role?
Borko Nokjov, 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

Mo1591
Does other end-organ damage correlate with risk of gastroparesis in diabetics?

Mo1592
Marijuana use in patients with symptoms of gastroparesis: Prevalence, patient characteristics, and perceived benefit

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
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 supress 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 Kligys

MONDAY, MAY 20 (cont’d)

Mo1877
Tumor necrosis factor α and IL-17a producing CD4+ tissue resident memory T-cells are expanded in Crohn’s and are inhibited by the anti-inflammatory microbial metabolite butyrate

Mo1927
Citrobacter rodentium induces CD4+ tissue resident memory T-cells that expand with re-challenge

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 • 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 polyalanine-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

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+ 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, Mohammad El-Zaatari, Shrinita 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 • 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, Elsa Gomez Valderas, Debra Miller, MaryAnn Morgan-Cox, April N. Naegeli, Paul Pollack, Jay Tuttle, Toshihumi 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

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

12:30 – 1:45 PM • 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
Tu1257
Esophageal histopathologic patterns in patients undergoing peroral 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

Tu1727
Rapidity of symptomatic and inflammatory biomarker improvements following upadacitinib induction treatment: Data from the U-ACHIEVE study

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

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
## Faculty

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## Fellows

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