Greetings! I hope this edition of *The GI Digest* from Michigan Medicine Gastroenterology and Hepatology finds you healthy in body and strong in spirit as we begin to open up after the COVID-19 pandemic. Last year, Digestive Disease Week (DDW) was cancelled for the first time in its history. This year, I am grateful that the GI and Hepatology community will convene once again, and experience DDW in a new, virtual format on May 21–23, 2021. I am proud to report that, despite the extraordinary year behind us, our programs have remained rich and robust. Our faculty, fellows, research scientists, and mid-level providers have seized the unparalleled opportunity to showcase our many accomplishments to our peers throughout the world.

Our Division of Gastroenterology and Hepatology has an impressive history of leadership and recognition at DDW. On Friday and Saturday, May 14 and 15, we celebrated our 2020 and 2021 AGA Recognition Award recipients. I was pleased to see many familiar faces at the virtual celebrations of our prestigious awardees: Dr. Robert Fontana, AGA Distinguished Educator Award (2020); Dr. Nobuhiko Kamada, AGA Young Investigator Award in Basic Science (2020), Dr. Linda Samuelson, AGA Institute Research Mentor Award – Cellular & Molecular Gastroenterology (2020), and Dr. Elliot Tapper, MD, AGA Young Investigator Award in Clinical Science (2021). Dr. Deborah Gumucio will give the AGA Morton I. Grossman Distinguished Lecture during DDW. In 2020, the ASGE awarded Dr. Michelle Anderson the ASGE Distinguished Service Award and Dr. Joel Rubenstein an ASGE Research Award. Dr. Grace Elta gave the ASGE Basil I. Hirschowitz, MD Endowed Lecture at the ASGE Annual Postgraduate Course on April 24, 2021.

We are also very proud of the many faculty serving in leadership roles and on many committees. Dr. Carethers joined the AGA Governing Board in June 2020 as vice president and will serve as its president-elect in 2021 before taking over as president in 2022. At the AGA Institute Council level, Dr. Peter Higgins is the chair of the Immunology, Microbiology & Inflammatory Bowel Diseases Section.

The Division again has a strong showing at DDW, reflected in the number of presentations by our faculty and fellows. We have 45 platform presentations – notably, 1 state-of-the-art lecture and 6 distinguished abstracts at the plenary sessions – and 43 posters, including 8 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 moderators and will participate in live Q&As, panel discussions, and networking sessions.
DDW 2020–2021 Awards and Recognition

Grace H. Elta, MD, MASGE
ASGE Basil I. Hirschowitz, MD Endowed Lecture • 2021

The Basil I. Hirschowitz, MD Endowed Lecture is presented annually during DDW, and was established by the ASGE Foundation and generous contributions from friends, trainees and colleagues of Dr. Hirschowitz.

Dr. Elta’s lecture Pancreatic Cysts was presented at the virtual ASGE Annual Postgraduate Course on April 24, 2021. "Dr. Hirschowitz performed some of his pioneering fiberoptic studies at the University of Michigan in conjunction with our college of engineering. His image is proudly shown at the entrance to our hospital-based endoscopy unit. I am truly honored to be named the 2021 ASGE Basil I. Hirschowitz Endowed Lecturer!"

Deborah L. Gumucio, PhD
AGA Morton I. Grossman Distinguished Lectureship • 2021

Recognized for outstanding research related to the discipline of gastroenterology, the lecturer is invited to deliver a lecture on the topic of their choosing during DDW. The Grossman lecturer is a thought leader in any area of gastroenterology. The lecture and research area reflect the very best science in the field of digestive diseases.

Communicate!! The Essential Nature of Crosstalk in Development, Disease and Science
Dr. Gumucio will introduce the BioArtography outreach project and discuss its power to communicate research breakthroughs in basic and clinical spheres to the lay public. Then, she will examine the dramatic ability of signals from the intestinal mesenchyme (stroma) to facilitate lengthening of the embryonic intestinal epithelial tube; interruption of such communication results in drastically shortened intestines in mice and may be relevant to Congenital Short Bowel Syndrome in humans. Finally, she will discuss how the process of villus formation presents a textbook example of how back-and-forth communication between epithelium and mesenchyme during intestinal development spawns the growth of a beautiful garden of highly patterned intestinal villi.
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 2021.

Robert J. Fontana, MD  
**Distinguished Educator Award • 2020**  
American Gastroenterological Association

AGA Distinguished Educator Award recognizes the achievements of an outstanding educator who has a long record of major contributions to education in the field of gastroenterology and/or hepatology on both local and national levels.

AGA honors Robert Fontana, MD, with the Distinguished Educator Award, which recognizes an individual who has made outstanding contributions as an educator in gastroenterology on both local and national levels. Dr. Fontana's greatest teaching impact has been the establishment of one of the most highly successful transplant hepatology fellowship training programs in the country. He has taught countless medical students, residents, and fellows, as well as faculty members via his clear, concise, and well-organized lectures and presentations. Dr. Fontana is a professor of medicine, medical director of liver transplantation, and director of transplant hepatology fellowship ACGME-accredited training program at the University of Michigan, Ann Arbor.
We are proud to announce the following news from the ASGE.

**Michelle A. Anderson, MD, MSc, FASGE**

**ASGE Distinguished Service Award • 2020**
American Society for Gastrointestinal Endoscopy (ASGE)

This honor is presented to an individual who has made long-term contributions to GI endoscopy and is a strong supporter of the mission of the Society.

Dr. Anderson attended Wayne State University School of Medicine (1989-1993) and completed a residency in Internal Medicine (1993-1996) and fellowship in Gastroenterology (1996-1999) at the University of Michigan. In 2005, she was awarded a Master’s Degree in Clinical Research and Statistics from the University of Michigan School of Public Health. Dr. Anderson joined the faculty at the University of Michigan in 1999 and was promoted to Associate Professor with tenure in 2013.

Her research and clinical career is focused on gastrointestinal disease with a specific concentration on pancreatic diseases including chronic pancreatitis and pancreatic cancer. Using advanced endoscopy techniques including endoscopic ultrasound (EUS) and endoscopic retrograde cholangiopancreatography she cares for the full spectrum of benign and malignant pancreatic disorders. Dr. Anderson successfully completed an NIH-sponsored study centered on the discovery and validation of minimally invasive clinical biomarkers for the diagnosis of pancreatic cancer. Currently, she serves as the Physician Lead for the Interventional Endoscopy team at UM and the co-Director of the University of Michigan Comprehensive Cancer Center Multidiscipline Pancreatic Tumor Board.

On a national level, Dr. Anderson has served on the Standards of Practice Committee for the American Society for Gastrointestinal Endoscopy (ASGE) for five years and in 2016 completed a three year term as the Chair of the ASGE Institute for Training Technology Committee. Dr. Anderson also completed her term as Counselor on the ASGE Governing Board. She remains active with ASGE and is currently co-leading the Diagnostic EUS Training Program that was launched in 2019. She speaks regularly on topics of pancreatic diseases and teaches advanced endoscopic techniques nationally and internationally. In the arena of chronic pancreatitis, Dr. Anderson led the development of National Guidelines in the care of patients with painful chronic pancreatitis. Additional work in this field include the publication of three peer-reviewed papers focused on pain, chronic pancreatitis and EUS including two of which involved a multi-center prospective cohort study of patients with chronic pancreatitis.
Linda C. Samuelson, PhD
AGA Institute Council Section Research Mentor Award • 2020
Cellular & Molecular Gastroenterology Section

The AGA Institute Council Cellular & Molecular Gastroenterology Section occupies a unique niche within AGA as membership is not disease-based but focuses sharply on issues and themes related to the basic science underlying digestive diseases and gastrointestinal cell biology, with particular emphasis on conceptual and technical innovations in the field. The AGA Institute Council Section Research Mentor Award acknowledges AGA members for their achievements as section members who have demonstrated a track record of outstanding mentorship in gastrointestinal research.

Dr. Samuelson, PhD is recognized based on her fundamental findings on mechanisms of gastrointestinal stem cell biology, her impact mentoring trainees and junior faculty in basic gastrointestinal research, and her keen vision to developing basic science research programming at DDW.

Nobuhiko Kamada, PhD
AGA Young Investigator Award in Basic Science • 2020

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

AGA honors Nobuhiko Kamada, PhD, with the Young Investigator Award in Basic Science. Dr. Kamada is known for his innovation combining fields examining the microbiota and the immune system in IBD, specifically, the interplay between diet, commensal and pathogenic microbes, and the immune system. He has published stellar findings that have been highly cited within short periods of time due to their innovation.

Joel Rubenstein, MD, MSc, FASGE
ASGE Research Award • 2020
American Society for Gastrointestinal Endoscopy (ASGE)

ASGE Research Awards are offered to investigators for projects in basic, translational and clinical research with a relationship to gastrointestinal endoscopy. The research committee considers funding pilot projects if there is an explicit outline for subsequent projects, and their funding plan (e.g. NIH, VA Merit), based on the preliminary data generated by the proposed pilot.

“We are very excited to accept this award, for, to our knowledge, this will be the first study to assess the long-term incidence of Barrett’s esophagus in a national database following a normal index endoscopy, and we will also assess whether acid reducing medications decrease the incidence of new Barrett’s esophagus.”

Elliot B. Tapper, MD
AGA Young Investigator Award in Clinical Science • 2021

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

AGA honors Elliot Benjamin Tapper, MD, with the Young Investigator Award in Clinical Science. Dr. Tapper’s research focuses on improving the outcomes, quality of life and freedom from adverse events for patients with decompensated cirrhosis, with a specific focus on those with or at risk for hepatic encephalopathy. He is also active in quality improvement studies, modeling of medical decision making and health care cost-effectiveness. Dr. Tapper is an assistant professor of medicine in the division of gastroenterology at the University of Michigan, Ann Arbor.
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<th>DDW 2008</th>
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<tr>
<td>Richard J. Saad, MD, MS</td>
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<tr>
<td>AGA Research Scholar Award</td>
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<td>Michael L. Volk, MD, MSc</td>
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<td>AGA Research Scholar Award</td>
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<th>DDW 2009</th>
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<tr>
<td>Anna S. Lok, MD, FRCGP, Juanita L. Merchant, MD, PhD</td>
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<tr>
<td>AGA Foundation for Digestive Health and Nutrition</td>
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<td>Outstanding AGA Women in Science Award</td>
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<th>DDW 2010</th>
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<tr>
<td>Tadataka Yamada, MD</td>
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<td>AGA Distinguished Mentor Award</td>
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<th>DDW 2011</th>
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<td>Chung Owyang, MD</td>
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<tr>
<td>AGA Distinguished Mentor Award</td>
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<td>Joel H. Rubenstein, MD</td>
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<tr>
<td>GRG/AGA Young Investigator Award in Clinical Science</td>
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<tr>
<td>James M. Scheiman, MD</td>
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<td>AGA Mentor Award • Esophageal, Gastric &amp; Duodenal Disorders Section</td>
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<td>AGS Senior Investigator Mentoring Award</td>
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<td>Andrea Todisco, MD</td>
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<tr>
<td>R. Robert and Sally Funderburg Research Scholar Award in Gastric Biology Related to Cancer Biology</td>
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<td>John Del Valle, MD</td>
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<td>AGA Distinguished Educator Award</td>
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<td>Grace H. Elta, MD</td>
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<tr>
<td>AGA Mentor Award • Imaging and Advanced Technology Section</td>
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<td>Timothy T. Nostrant, MD</td>
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<td>AGA Distinguished Clinician Award</td>
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<tr>
<td>Grace H. Elta, MD</td>
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<td>AGS Distinguished Educator Award</td>
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<tr>
<td>Chung Owyang, MD</td>
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<td>AGA Julius Friedenwald Medal</td>
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<td>Joseph C. Kolars, MD</td>
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<td>AGA Distinguished Educator Award</td>
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<td>Richard S. Kwon, MD, MS</td>
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<td>AGA–Covidien Research and Development Pilot Award in Technology</td>
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<td>Juanita L. Merchant, MD, PhD</td>
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<td>AGA Mentor Award • Regulatory Peptides, Cell Signaling &amp; Molecular Biology Section</td>
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<td>M. Bishr Omary, MD, PhD</td>
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<tr>
<td>AGA Mentor Award • Liver and Biliary Section</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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<tr>
<td>John A. Williams, MD, PhD</td>
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<td>AGA Distinguished Achievement Award</td>
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<th>DDW 2015</th>
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<tr>
<td>William D. Chey, MD</td>
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<td>AGA Distinguished Clinician Award</td>
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<td>M. Bishr Omary, MD, PhD</td>
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<th>DDW 2016</th>
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<tr>
<td>Anna S. Lok, MD, FRCGP</td>
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<td>AGA William Beaumont Prize in Gastroenterology</td>
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<tr>
<td>John M. Carethers, MD</td>
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<tr>
<td>AGA Distinguished Mentor Award</td>
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<tr>
<td>Hari S. Conjeevaram, MD, MS</td>
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<td>AGA Distinguished Educator Award</td>
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<tr>
<td>Juanita L. Merchant, MD, PhD</td>
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<tr>
<td>AGA Distinguished Achievement Award in Basic Science</td>
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<th>DDW 2018</th>
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<tr>
<td>Grace H. Elta, MD</td>
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<tr>
<td>AGA Distinguished Mentor Award • Growth, Development &amp; Child Health Section</td>
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<td>Deborah L. Gumucio, PhD</td>
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<td>AGA Mentor Award • Imaging and Advanced Technology Section</td>
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<td>John I. Allen, MD, MBA</td>
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<td>AGA Julius Friedenwald Medal</td>
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<td>Costas A. Lyssiotis, PhD</td>
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<td>Michelle A. Anderson, MD, MSc</td>
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<td>AGSA Distinguished Service Award</td>
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<td>Robert J. Fontana, MD</td>
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<td>AGA Young Investigator Award in Basic Science</td>
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<td>Joel H. Rubenstein, MD, MSc</td>
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<td>ASGE Research Award</td>
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<tr>
<td>Linda C. Samuelson, PhD</td>
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<tr>
<td>AGA Mentor Award • Cellular &amp; Molecular Gastroenterology Section</td>
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<th>DDW 2021</th>
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<tr>
<td>Grace H. Elta, MD</td>
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<tr>
<td>AGSA Basil I. Hirschowitz, MD Endowed Lecture</td>
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<tr>
<td>Deborah L. Gumucio, PhD</td>
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<tr>
<td>AGA Morton I. Grossman Distinguished Lectureship</td>
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<tr>
<td>Elliot B. Tapper, MD</td>
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<tr>
<td>AGA Young Investigator Award in Clinical Science</td>
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Discrete LGR4 expressing BDNF neurons in the paraventricular hypothalamus controls thermogenesis in brown adipose tissues: Impairment by high fat feeding

Ji-Yao Li, Xiaoyin Wu, Gintautas Grabauskas, Chung Owyang

GALAD demonstrates high sensitivity for early-stage detection of hepatocellular carcinoma in a cohort of patients with cirrhosis

Amit G. Singal, Nabihah Tayob, Austin J Fobar, Qingchun Jin, Cristian Saenz de Viteri, Jorge A. Marrero, Neehar D. Parikh

A multicomponent intervention reduces proton pump inhibitor use without evidence of harm: A quasi-experimental study of over 4 million US veterans

Jacob Kurlander, Sameer Saini, Loren Laine, Hyungjin Myra Kim, Christopher B. Roberts, Michelle Shank, Yu-Xiao Yang

Clinical coordination and intense proactive monitoring to improve utilization of resources and reduce expenditures in high-risk IBD patients (CAPTURE IBD): A randomized, controlled quality improvement trial

Jeffrey Berinstein, Gillian Greenberg, Shirley Cohen-Mekelburg, Peter D.R. Higgins

The association of sustained virologic response on treatment outcomes in patients with hepatocellular carcinoma with hepatitis C

Neehar D. Parikh, Neil Mehta, Maarouf Hoteit, Ju Dong Yang, Binu V. John, continued

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### Sunday, May 23, 2021 cont’d

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<tr>
<th>Time</th>
<th>Event</th>
<th>Moderator</th>
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<tr>
<td>2:17 PM</td>
<td>AGA Research Symposium Metabolites and Bioactive Lipids in GI Disease</td>
<td>Robert Fontana</td>
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<tr>
<td>4:36 PM</td>
<td>AGA Cellular &amp; Molecular Gastroenterology Distinguished Abstract Plenary</td>
<td>Costas Lyssiotis, Shipra Vaishnava</td>
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<tr>
<td>4:47 PM</td>
<td>AGA Immunology, Microbiology &amp; Inflammatory Bowel Diseases Distinguished Abstract Plenary</td>
<td>Linda C. Samuelson, Xiaohong Wang</td>
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### Saturday, May 22, 2021 cont’d

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<th>Time</th>
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<th>Moderator</th>
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<tr>
<td>1:00 PM</td>
<td>AGA State-of-the-Art Lecture AGA Morton I. Grossman Distinguished Lectureship Welcome and Introduction</td>
<td>Linda C. Samuelson</td>
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<tr>
<td>3:30 PM</td>
<td>AGA Research Forum Inflammation and GI Cancers Moderator Introduction: John Kao</td>
<td>John Kao</td>
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<tr>
<td>5:30 PM</td>
<td>AGA Clinical Symposium Gender Disparities in GI: Progress and Challenges Moderator Introduction: Megan A. Adams</td>
<td>John Carethers</td>
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### Sunday, May 23, 2021

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<th>Time</th>
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<tr>
<td>10:00 AM</td>
<td>AGA Clinical Symposium Bringing QI to GI: Translating Quality Measures to Practice Moderator Introduction: Megan A. Adams</td>
<td>John W. Chen</td>
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<tr>
<td>10:00 AM</td>
<td>AGA Research Forum Novel Approaches to Studying Physiology of the Esophagus Moderator: Joan Chen</td>
<td>Joan W. Chen</td>
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### Friday, May 21, 2021

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<th>Time</th>
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<tr>
<td>10:00 AM</td>
<td>AASLD Research Forum COVID-19 and the Liver Moderator: Robert Fontana</td>
<td>Robert Fontana</td>
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<td>11:30 AM</td>
<td>DDW Networking Grand Rounds: Gastrointestinal Oncology Moderator: Michelle Anderson</td>
<td>Michelle Anderson</td>
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<tr>
<td>3:30 AM</td>
<td>AGA Funderburg Symposium Gastric Tumorigenesis Models: Organoids and Mice Moderator: John Kao</td>
<td>John Kao</td>
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<tr>
<td>1:00 PM</td>
<td>AGA Research Forum Molecular and Immune Profiling of GI Cancers Moderator Introduction: Yatrik M. Shah</td>
<td>Yatrik M. Shah</td>
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<tr>
<td>5:30 PM</td>
<td>AGA Research Forum Exploring Issues of Diversity &amp; Disparity in Gastroenterology Moderator: John Carethers</td>
<td>John Carethers</td>
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### Saturday, May 22, 2021

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<th>Time</th>
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<tr>
<td>10:02 AM</td>
<td>AGA Clinical Symposium Barrett’s Esophagus: What’s New From Diagnosis Through Treatment Presentation of Research Mentor Award to John M. Inadomi, MD, AGAF Joel H. Rubenstein</td>
<td>John M. Inadomi, Fasiha Kanwal, Jacob E. Kurlander, Benjamin H. Mullish</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>AGA Research Forum Novel Approaches to Studying Physiology of the Esophagus Moderator: Joan Chen</td>
<td>John M. Inadomi, Fasiha Kanwal, Jacob E. Kurlander, Benjamin H. Mullish</td>
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</table>
**Symposiums**

### Friday, May 21, 2021

10:03 AM • AGA Clinical Symposium  
Path to partnership in private practice  
John I. Allen

5:52 PM • AGA Translational Symposium  
AGA-CSG: Best of DDW in Chinese  
IBD and microbiota related to GI disorders  
John Y. Kao

### Saturday, May 22, 2021

10:06 AM • AGA Clinical Symposium  
Barrett’s Esophagus: What’s New From Diagnosis Through Treatment  
Who is at risk and should we screen?  
Joel H. Rubenstein

3:32 PM • AGA Clinical Symposium  
Genetics of obesity – The hammer or the nail?  
Elizabeth Speliotes

3:48 PM • AGA Translational Symposium  
Association of deleterious DUOX2 variants with a preclinical hallmark of disturbed microbiota-immune homeostasis and risk of inflammatory bowel disease  

5:33 PM • AGA Clinical Symposium  
Promotions and pay structure  
John I. Allen

### Saturday, May 22, 2021 cont’d

5:50 PM • AGA Research Symposium  
Kiron and Kamala Das Symposium: Cell Death in the Intestinal Epithelium  
Ferroptosis in the intestinal epithelium  
Yatrik M. Shah

6:02 PM • AGA Clinical Symposium  
Identifying and Managing Issues of Pancreatic Insufficiency  
Nutritional evaluation and dietary management  
Amanda Lynett

6:17 PM • AGA Clinical Symposium  
Charting a pathway of success in enzyme replacement  
Matthew J. DiMagno

### Sunday, May 23, 2021

10:31 AM • AGA Clinical Symposium  
Advances in Peptic Ulcer Disease and Non-Variceal Upper GI Bleeding  
Jacob E. Kurlander, John N. Mafi, Elliot B. Tapper, Geoffrey Barnes, Caroline R Richardson, Joel H. Rubenstein, Sameer D. Saini, Patrick D Meek

10:45 AM • AGA Clinical Symposium  
Bringing QI to GI: Translating Quality Measures to Practice  
Implementing quality measures in integrated healthcare delivery systems: Endoscopic overuse  
Sameer D. Saini

11:01 AM • AGA Research Symposium  
The risks and benefits of JAK inhibitors in acute severe UC  
Peter D. Higgins

1:02 PM • AGS Clinical Symposium  
Management of HBV in the Young Population  
Management of the “immune tolerant” patient: How to evaluate, to treat or not to treat?  
Anna S. Lok

1:02 PM • AGA Clinical Symposium  
Technological Advances in Inflammatory Bowel Disease  
Artificial intelligence in IBD imaging and endoscopy  
Ryan Stidham

1:02 PM • AGA Research Symposium  
Metabolites and Bioactive Lipids in GI Disease  
Metabolites regulating gastrointestinal neoplasms  
Costas A. Lyssiotis

2:07 PM • AASLD Clinical Symposium  
Management of Drug-induced Liver Injury  
Liver transplantation for DILI: Predicting the need and managing the patient  
Robert J. Fontana

3:25 PM • DDW Clinical Symposium  
Best of DDW 2021  
Best of AASLD  
Grace Su

**Spring 2021**  
**The GI Digest**  
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**Research and Topic Forums**

Friday May 21, 2021

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<tr>
<th>Time</th>
<th>Forum</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>10:29 AM</td>
<td>ASGE Topic Forum</td>
<td>Endoluminal functional lumen imaging probe (EndoFLIP) can be used to assess severity of gastric sleeve stenosis</td>
<td>Jessica X. Yu, Kevin D. Platt, Sean Bhalla, Lydia Watts, Allison R. Schulman</td>
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<tr>
<td>11:00 AM</td>
<td>AASLD Research Forum</td>
<td>Risk of progression to hepatocellular carcinoma in patients with indeterminate (LI-RADS 3) observations</td>
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<td>1:58 PM</td>
<td>AGA Research Forum</td>
<td>Demographic and clinical factors associated with severe abdominal bloating in FGIDs: Female sex, constipation, and dyspepsia, but not psychological factors are associated with severe bloating.</td>
<td>Catherine Parkhurst Gardiner, Prashant Singh, Sarah Ballou, Rafa Hassan, Vanessa Yu, Anthony Lembo, Judy Nee, Johanna Iturrino</td>
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<td>AGA Research Forum</td>
<td>Crohn's disease, anxiety and depression, and baseline C-reactive protein level predict risk for incident irritable bowel syndrome–like symptoms in quiescent inflammatory bowel disease</td>
<td>Mehwish Ahmed, Krishna Rao, Shrinivas Bishu, William D. Chey, Peter D.R. Higgins, Allen Lee</td>
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Saturday, May 22, 2021

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*continued*
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Alpha-1 antitrypsin Pi*MZ genotype associates with more rapid decompensation and decreased transplant-free survival among patients with compensated cirrhosis.

Daniel A. Burkholder, Isabel J. Moran, Jacob V. DiBattista, Elizabeth Speliotes, Vincent L. Chen

Endoscopy and systematic biopsy of patients with chronic gastrointestinal symptoms leads to high discovery rate of patients who meet histologic criteria for eosinophilic gastritis and/or eosinophilic duodenitis.


Efficacy of high-dose dual therapy and bismuth quadruple therapy in first-line and rescue Helicobacter pylori eradication – a final report of multi-center, randomized control study.

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

Ameliorating effects and mechanisms of auricular vagal nerve stimulation in a rodent model of functional dyspepsia.

Liwei Hou, Juan Han, Wei Wei, Jiande Chen, Jiliang Fang, Jinling Zhang, Junying Wang, Peijing Rong

Prevalence of bowel disorders in multiple sclerosis and Parkinson’s disease: Results from a nationwide survey of nearly 90,000 Americans.

Christopher Velasquez Almario, William D. Chey, Carolyn S. Higgins, Brennan Spiegel

Estimating the system-level costs of for-profit journals on academic gastroenterology research.

Emily Harding-Theobald, Bharat Maraj

Continuity of care for patients with chronic gastrointestinal disease: A latent class analysis of patients with high-intensity specialty care needs.

Shirley Cohen-Mekelburg, Liberty Greene, Akbar K. Waljee, Timothy Hofer, Sameer Dev Saini, Donna Zulman

Doylestown Plus algorithm as a novel biomarker to detect hepatocellular carcinoma in patients with cirrhosis.

Amit G. Singal, Nabihah Tayob, Anand Mehta, Austin J. Fobar, Qingchun Jin, Cristian Saenz de Viteri, Jorge A. Marrero, Neehar D. Parikh

Stage migration after transarterial chemoembolization as a predictor of survival in patients with hepatocellular carcinoma.

Ihab Kassab, Sagar Joshi, Amit G. Singal, Vincent L. Chen, Neehar D. Parikh

TLR4 signal transduction pathway mediates upregulation of 2-pore domain potassium TRESK channel and is responsible for high-fat diet-induced vagal afferent dysfunction.

Shi-Yi Zhou, Xiaoyin Wu, Ji-Yao Li, Gintautas Grabauskas, Merritt Gilliland, Chung Owyang
Fr562 Detection of *pks+ Escherichia coli* associates with the presence of tubular adenomas and left-side colonic polyps in healthy patients undergoing screening colonoscopy
Victoria L Campodónico, Myron Jackson, Madison Mcmann, Emma Spence, Celina Santiago, Carisse Lansiquot, Samara Rifkin, Julia L Drewes, Courtney Stevens, Joell J Gills, Amy Lynn Schiller, Pamela Scheerer, Stacy Gerhart, David M Cromwell, Marshall Bedine, Eduardo Gonzalez-Velez, Hazel Marie Galon Veloso, Gerard Mullin, David Kafonek, Louis La Luna, Linda Hylind, Francis Giardiello, Cynthia L Sears

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Julia L Drewes, Madison Mcmann, Courtney Stevens, Samara Rifkin, Emma Spence, Celina Santiago, Joell J Gills, Carisse Lansiquot, Amy Lynn Schiller, Pamela Scheerer, Stacy Gerhart, Karin Donato, David M Cromwell, Marshall Bedine, Eduardo Gonzalez-Velez, Hazel Marie Galon Veloso, Gerard Mullin, David Kafonek, Louis La Luna, Linda Hylind, Francis Giardiello, Cynthia L Sears

Sa250 • AGA Poster of Distinction
The suitability of the current EUCAST *H pylori* amoxicillin resistance breakpoints in predicting high-dose amoxicillin-PPI dual salvage therapeutic efficacy and in assessing amoxicillin resistance rates in the U.S.
Ashley Cawthon, Chien-Chih Tung, Min Zhang, Mohamad El-Zaatari, Helmut Grasberger, Jyh-Chin Yang, John Y. Kao
**Poster Sessions**

**Saturday, May 22, 2021**

**Sa357**
Disease knowledge, health-related quality of life and lifestyle behavior change in patients with non-alcoholic fatty liver disease
Lisa Glass, Haile Asefa, Michael Volk, Anna Lok, Monica A. Tincopa

**Sa387**
Dietary monosodium glutamate (MSG) acts on TA51R1/TA51R3 expressing gastric tuft cells to stimulate ATP release and induce visceral hypersensitivity
Yawen Zhang, Gintautas Grabauskas, Xiaoyin Wu, Jun Gao, Chung Owyang

**Sa393 • AGA Poster of Distinction**
Gastroparesis patients with greater short-term symptom improvements after G-POEM demonstrate less severe pyloric dysfunction on EndoFLIP testing
Lydia Watts, Moira Armstrong, Gabrielle Ezell, Jason R Baker, Nicole Bowers, Ryan Law, William L. Hasler

**Sa399**
Wireless motility capsule identifies a distinct phenotype of gastric dysmotility with an associated differential response to drug therapy
Trisha Satya Pasricha, John Russell Semler, Allen Lee, Baha Moshiree, William L. Hasler, Braden Kuo

**Sa403**
Coefficients of variation of pyloric diameter and distensibility and reproducibility of EndoFLIP testing in gastroparesis patients undergoing pyloric therapy
Moira Armstrong, Lydia Watts, Gabrielle Ezell, Jason R Baker, Nicole Bowers, Ryan Law, William L. Hasler

**Sa409**
Terminology impacts simulated defecation responses during anorectal manometry: Analysis of the London classification for disorders of anorectal function
Jason R. Baker, Mackenzie Jarvis, Elyse Thakur, William D. Chey, Rafat Rizk, Darren M. Brenner, Eric D. Shah, Baha Moshiree

**Sa423**
Quantifying healthcare utilization and delay in treatment of gastric stenosis following sleeve gastrectomy
Jiwon V. Park, Maxwell T. Sievers, Paris D. Rollins, Alyssa M. Hardin, Hootan M. Omidvar, Laura Mazer, Allison R. Schulman

**Sa409**
Fermentation product propionic acid produced by specific gut bacteria induces barrier dysfunction and subclinical mucosa inflammation
Yawen Zhang, Jun Gao, Shi-Yi Zhou, Binrui Chen, Ning Dai, Xin Wang, Chung Owyang

**Sa625**
Closed-loop intestinal electrical stimulation synchronized with intrinsic intestinal slow wave ameliorates glucagon-induced hyperglycemia in rats via enhanced release of GLP-1
Shiying Li, Hongbing Zhu, Philippe Fady Moussalli, Jia Ren Chen

**Sa628**
M3 cholinergic pathway underlies the hypoglycemic effect of intestinal electrical stimulation via enhanced release of incretin hormones in the postprandial state
Yan Dong, Yiling Zhang, Shiying Li, Jiande Chen

**Sunday, May 23, 2021**

**Su007 • ASGE Poster of Distinction**
Variability in endoscopic assessment of Nissen fundoplication wrap integrity and hiatus herniation: A multi-center study
Erin J. Song, Rena H. Yadlapati, Joan W. Chen, Alice Parish, Matthew J. Whiston, Karthik Ravi, Amit Patel, Dustin Carlson, Abraham Khan, Donna Niedzwiecki, David A. Leiman

**Su085**
Prevalence and burden of illness of Rome IV irritable bowel syndrome in the U.S.
Christopher Velasquez Almario, William D. Chey, Carolyn S. Higgins, Brennan Spiegel

**Su092**
Who reports post-prandial diarrhea? Analysis of a cohort of patients with chronic diarrhea
Rafael Hassan, Prashant Singh, Sarah Ballou, Vanessa Yu, Vikram Rangan, Judy Nee, Johanna Iturrino, Anthony Lembo
Poster Sessions 12:15 – 1:00 PM

Sunday, May 23, 2021 cont’d

Su140
Chronic psychological stress alters gene expression in rat colon epithelial cells associated with barrier dysfunction, inflammation, and chromatin remodeling

John W. Wiley, Gerald A. Higgins, Shuangsong Hong

Su343 • AASLD Poster of Distinction
Ammonia testing is overused and leads to excess lactulose use: A prospective, blinded assessment of ammonia test utility among front-line clinicians

Juan J. Gonzalez, Elliot B. Tapper

Su364
Pill or procedure? Understanding patient preferences regarding beta-blockers as an alternative to endoscopic variceal screening during the COVID-19 pandemic

Zheng Che, Jeremy Louissaint, Ihab Kassab, Elliot B. Tapper

Su474
Healthcare utilization among inflammatory bowel disease patients receiving opioids: A systematic review and meta-analysis

Jessica L. Sheehan, Janson Jacob, Calen Andrew Steiner, Sameer K Berry, Carol Shannon, Shirley Cohen-Mekelburg, Peter D.R. Higgins, Jeffrey Berinstein

Su485
Cannabis users with inflammatory bowel disease in clinical remission have increased levels of subclinical inflammation

Madeline Bertha, Diego Jimenez Lara, Jami Kinnucan, Stephen B. Hanauer

Su554 • AGA Poster of Distinction
Prevalence of sucrase-isomaltase deficiency in adults with irritable bowel syndrome and diarrhea and functional diarrhea: An interim analysis from a prospective US trial

Samuel Chey, William D. Chey, Shanti L. Eswaran

Su562
Does mucosal Akkermansia abundance predict omega fatty acids and PGE2 production after dietary intervention?

Samara Rifkin, Ananda Sen, D. Kim Turgeon, Mack T. Ruffin, Dean E Brenner, Patrick D Schloss, Zora Djuric

Su576
Are all FODMAPs created equal? A blinded, randomized reintroduction trial to determine which FODMAPs drive clinical response in IBS patients

Shanti L. Eswaran, Prashant Singh, Samara Rifkin, William D. Chey

Su577
Does the gut microbiome explain the clinical benefits of green kiwifruit, psyllium, or prunes in US patients with chronic constipation?

Samuel Chey, Christine Marie Bassis, Vincent Bensan Young, William D. Chey, Shanti L. Eswaran
FRIDAY, MAY 21

10:00 AM • AASLD Research Forum
COVID-19 and the Liver
Moderator: Robert Fontana

10:29 AM • ASGE Topic Forum
Endoluminal functional lumen imaging probe (EndoFLIP) can be used to assess severity of gastric sleeve stenosis
Jessica X. Yu, Kevin D. Platt, Sean Bhalla, Lydia Watts, Allison R. Schulman

11:00 AM • AASLD Research Forum
Risk of progression to hepatocellular carcinoma in patients with indeterminate (LI-RADS 3) observations

11:10 AM • ASGE Topic Forum
Advances and Refinements in Bariatric Endoscopy
Roundtable Discussion: Tips and tricks for endoscopic therapy to treat weighty regain or complications after bariatric surgery
Allison R. Schulman, Erik B. Wilson

11:30 AM • DDW Networking
Grand Rounds: Gastrointestinal Oncology
Moderator: Michelle Anderson
1:00 PM • AGA Research Forum
Molecular and Immune Profiling of GI Cancers
Moderator Introduction: Yatrik M. Shah

1:03 PM • AGA Clinical Symposium
Path to partnership in private practice
John I. Allen

1:15 PM • AASLD Research Forum
Specificity and positive predictive value of international classification of diseases-10 diagnosis codes for cirrhosis
Isabel J. Moran, Daniel A. Burkholder, Jacob V. DiBattista, Vincent L. Chen

1:16 PM • AGA Research Forum
How often does Squatty Potty correct an abnormal balloon expulsion test in chronically constipated patients?
Eden Koo, Gabrielle Ezell, William D. Chey, Jason Baker, Moira Armstrong, Borko Nojkov

1:16 PM • AGA Research Forum
Working smarter not harder: Using simulation to evaluate evidence-based strategies to offload colonoscopy backlogs related to COVID-19
Adam VanDeusen, Sameer Saini, Eve Kerr, Amy Cohn, Timothy Hofer, Andrew Gawron, Jason Dominitz, Jacob Kurlander

1:26 PM • AGA Research Forum
A prediction model for metachronous advanced neoplasia after colorectal polypectomy utilizing polypl, demographic, and quality factors
Samir Gupta, Ranier Bustamante, Ashley Earles, Joshua Demb, Hanin Yassin, Maria Elena Martinez, Sameer Dev Saini, Deborah A. Fisher, Andrew J Gawron, Tonya R. Kaltenbach, Olga V Patterson, Scott L DuVall, Karen Messer, Lin Liu

1:54 PM • AGA Research Forum
Efficacy and safety of mirikizumab after 52-weeks maintenance treatment in patients with moderate-to-severe Crohn’s disease

3:30 PM • AGA Research Symposium
Funderburg Symposium — Gastric Tumorigenesis Models: Organoids and Mice
Moderator: John Kao

4:44 PM • AGA Research Symposium
AGA Funderburg Symposium
Gastric Tumorigenesis Models: Organoids and Mice
Live Q&A
Diane Bimczok, John Y. Kao, Anne Muller, Jose Saenz, Daniel E. Stange

5:30 PM • AGA Research Forum
Exploring Issues of Diversity & Disparity in Gastroenterology
Moderator: John Carethers

5:30 PM • AGA Translational Symposium
AGA-CSG: Best of DDW in Chinese
Moderator Introduction: John Y. Kao

5:32 PM • AGA Translational Symposium
IBD and microbiota related to GI disorders
John Y. Kao

5:33 PM • AGA Plenary
AGA Basic Science Plenary
Discrete LGR4 expressing BDNF neurons in the paraventricular hypothalamus controls thermogenesis in brown adipose tissues: Impairment by high fat feeding
Ji-Yao Li, Xiaoyin Wu, Gintautas Grabauskas, Chung Owyang

5:54 PM • AGA Clinical Symposium
How do I integrate behavior and dietary therapy in irritable bowel syndrome?
William D. Chey
The GI Digest  
Spring 2021

Hepatocellular carcinoma survival in patients with cirrhosis

Mehwish Ahmed, Krishna Rao, Shriniwas Bishu, William D. Chey, Peter D.R. Higgins, Allen Lee

Stage migration after transarterial Fr393

Neehar D. Parikh, Cristian Saenz de Viteri, Jorge A. Marrero, Mehta, Austin J. Fobar, Qingchun Jin, Amit G. Singal, Nabihah Tayob, Anand Doylestown Plus algorithm as a novel biomarker to detect hepatocellular carcinoma in patients with cirrhosis

Sameer Dev Saini, Donna Zulman Akbar K. Waljee, Greene, Timothy Hofer, Shirley Cohen-Mekelburg, Liberty

Continuity of care for patients with high-intensity specialty care needs

Kathleen DelGiorno, Mark Donowitz, Yuan Fang, Klaus H. Kaestner, Ji-Yao Li, Simon M. Mwangi, Michael Pack, Chi Chun Wong

POSTER SESSIONS • Friday

Fr080
Prevalence of bowel disorders in multiple sclerosis and Parkinson’s disease: Results from a nationwide survey of nearly 90,000 Americans

Christopher Velasquez Almario, William D. Chey, Carolyn S. Higgins, Brennan Spiegel

Estimating the system-level costs of for-profit journals on academic gastroenterology research

Emily Harding-Theobald, Bharat Maraj

Fr105 • AGA Poster of Distinction
Continuity of care for patients with chronic gastrointestinal disease: A latent class analysis of patients with high-intensity specialty care needs

Shirley Cohen-Mekelburg, Liberty Greene, Akbar K. Waljee, Timothy Hofer, Sameer Dev Saini, Donna Zulman

Fr384
Do chronically constipated patients with an evacuation disorder have impaired constipation-specific quality of life?

Borko Nojkov, Jason R Baker, Gabriele Ezell, Moira Armstrong, Lydia Watts, William D. Chey

Fr546
Interventions to increase vaccinations rates with inflammatory bowel disease and rheumatoid arthritis: a systematic review and meta-analysis

Jalpa Patel, Dina Fakhouri, Mohamed Noureldin, Iris Kovar-Gough, Francis A Farraye, Bradley Warren, Akbar K. Waljee, Marc Steven Piper

Fr553
Patient perceptions on transition from clinic-based infusions to home-based infusions for inflammatory bowel disease patients during the COVID-19 pandemic: a qualitative quality improvement study

Janson Jacob, Daniel Aintabi, Melissa DeJonckheere, John I. Allen, David Irani, A. Mark Fendrick, Akbar K. Waljee, Peter D.R. Higgins, Jeffrey Berinstein

Fr562
Detection of pks+ Escherichia coli associates with the presence of tubular adenomas and left-side colonic polyps in healthy patients undergoing screening colonoscopy

Victoria L Campedónico, Myron Jackson, Madison Mcmann, Emma Spence, Celina Santiago, Carisse Lansiquot, Samara Rifkin, Julia L Drewes, Courtney Stevens, Joell J Gills, Amy Lynn Schiller, Pamela Scheerer, Stacy Gerhart, David M Cromwell, Marshall Bedine, Eduardo Gonzalez-Velez, Hazel Marie Galon Veloso, Gerard Mullin, David Kafonek, Louis La Luna, Linda Hylind, Francis Giardiello, Cynthia L Sears

Fr565
Initial and repeat colonic microbial biofilm detection in a healthy screening colonoscopy cohort

Julia L Drewes, Madison Mcmann, Courtney Stevens, Samara Rifkin, Emma Spence, Celina Santiago, Joell J Gills, Carisse Lansiquot, Amy Lynn Schiller, Pamela Scheerer, Stacy Gerhart, Karin Donato, David M Cromwell, Marshall Bedine, Eduardo Gonzalez-Velez, Hazel Marie Galon Veloso, Gerard Mullin, David Kafonek, Louis La Luna, Linda Hylind, Francis Giardiello, Cynthia L Sears

Fr568
Fusobacterium nucleatum infection is facilitated in colon cancer cells expressing gel-forming mucins

Koki Takeda, Minoru Koi, Jovan Pierre-Charles, Chan Choi, Eric Martens, John M. Carethers

SATURDAY, MAY 22

10:02 AM • AGA Clinical Symposium
Barrett’s Esophagus: What’s New From Diagnosis Through Treatment

Presentation of Research Mentor Award: John M. Inadomi, MD, AGAF
Presenter: Joel H. Rubenstein

10:06 AM • AGA Clinical Symposium
Barrett’s Esophagus: What’s New From Diagnosis Through Treatment

Who is at risk and should we screen? Joel H. Rubenstein
11:10 AM • AGA Clinical Symposium
Barrett’s Esophagus: What’s New From Diagnosis Through Treatment
Live Q&A
Douglas A. Corley, Rebecca C. Fitzgerald, Joel H. Rubenstein, Nicholas J. Shaheen

1:10 PM • AGA State-of-the-Art Lecture
AGA Morton I. Grossman Distinguished Lectureship
Welcome and Introduction of Lectureship and Lecturer: Linda C. Samuelson

1:16 PM • AGA Research Forum
Functional dyspepsia and gastroparesis are interchangeable syndromes with common clinical and pathological features

1:17 PM • ASGE Plenary
ASGE Presidential Plenary II
Panel Discussion
Impact of health care reform on the practice of gastroenterology
John I. Allen, Michael Chernew

2:00 PM • AASLD Plenary
AASLD Clinical Science Plenary
Panel Discussion
Joseph Ahn, Bashar Aqel, Jasmoohan Bajaj, Waihong Chung, Neehar D. Parikh, Andy Tien

2:10 PM • AGA State-of-the-Art Lecture
AGA Morton I. Grossman Distinguished Lectureship
Live Q&A
Deborah L. Gumucio, Linda C. Samuelson

2:15 PM • AASLD Research Forum
Alpha-1 antitrypsin Pi*MZ genotype associates with more rapid decompensation and decreased transplant-free survival among patients with compensated cirrhosis
Daniel A. Burkholler, Isabel J. Moran, Jacob V. DiBattista, Elizabeth Speliotes, Vincent L. Chen

3:30 PM • AGA Research Forum
Inflammation and GI Cancers
Moderator Introduction: John Y. Kao

3:32 PM • AGA Clinical Symposium
Genetics of obesity – The hammer or the nail? - Elizabeth Speliotes

3:48 PM • AGA Translational Symposium
Association of deleterious DUOX2 variants with a preclinical hallmark of disturbed microbiota-immune homeostasis and risk of inflammatory bowel disease

4:00 PM • AGA Research Forum
Endoscopy and systematic biopsy of patients with chronic gastrointestinal symptoms leads to high discovery rate of patients who meet histologic criteria
Raghavendra Paknikar, Nicole E. Rich, Matthew Schipper, Amit G. Singal

10:16 AM • AGA Research Forum
Mast-cell activation leading to colonic barrier dysfunction following high-FODMAP diet is mediated via lipopolysaccharide
Prashant Singh, Gintautas Grabauskas, Shi-Yi Zhou, Yawen Zhang, Chung Owyang

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Viscoelastic testing prior to procedures reduces blood product utilization without increasing bleeding risk in cirrhosis: A systematic review and meta-analysis
Abhishek Shony, Jeremy Louissaint, Carol Shannon, Elliot B. Tapper, Anna Lok

10:38 AM • AGA Research Forum
Increased risk of skin cancer variants are associated with an increased risk of skin cancer
Mohamad El-Zaatari, Min Zhang, Helmut Grasberger, Marilia Cascalho, John Y. Kao

10:44 AM • AGA Plenary
Liver & Biliary Distinguished Abstract Plenary
GALAD demonstrates high sensitivity for early-stage detection of hepatocellular carcinoma in a cohort of patients with cirrhosis
Amit G. Singal, Nabihah Tayob, Austin J Fobar, Qingchun Jin, Cristian Saenz de Viteri, Jorge A. Marrero, Neehar Dilip Parikh

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Yangjia Feng, Laura Johnson, Meng Zhang, Stephen Collins, Shaomeng Wang, Peter D.R. Higgins
Identifying and Managing Issues of Pancreatic Intestinal Epithelium

Kiron and Kamala Das Symposium: Cell Death in the Intestinal Epithelium

Moderator Introduction: Megan A. Adams

Gender Disparities in GI: Progress and Challenges

Moderator Introduction: Yatrik M. Shah

Promotions and pay structure

John I. Allen

Ferroptosis in the intestinal epithelium

Yatrik M. Shah

Putting it all together: How to set up your bariatric program

Allison R. Schuman

POSTER SESSIONS • Saturday

Putting it all together: How to set up your bariatric program

Allison R. Schuman

6:31 • AGA Clinical Symposium

Putting it all together: How to set up your bariatric program

Allison R. Schuman

Rapid onset of time to first spontaneous bowel movement (SBM) and predictable efficacy of oral once daily naloxegol: Pooled analysis of two global randomized controlled trials

William D. Chey, Carol B. Rockett, Enoch Bortey, June Almenoff

Naloxegol given orally once daily achieved rapid and sustained improvement of opioid-induced constipation (OIC) symptoms: A pooled analysis of two global randomized placebo-controlled trials

William D. Chey, Carol B. Rockett, Enoch Bortey, June Almenoff

Polymorphic Δ27bpMSH3, enriched in colorectal cancer and ulcerative colitis, relies on the NF-κB-associated protein NEMO for stability after MSH2 dissociation by IL-6

Stephanie Tseng-Rogenski, John M. Carethers

The suitability of the current EUCAST H pylori amoxicillin resistance breakpoints in predicting high-dose amoxicillin-PII dual salvage therapeutic efficacy and in assessing amoxicillin resistance rates in the U.S.

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Ashley Cawthon, Chien-Chih Tung, Min Zhang, Mohammad El-Zaatari, Helmut Grasberger, Jyh-Chin Yang, John Y. Kao

Comparison of scoring systems for diagnosing hepatic steatosis in the absence of imaging using real-world health data

Jacob V. DiBattista, Daniel A. Burkholder, Anna Lok, Vincent L. Chen

Disease knowledge, health-related quality of life and lifestyle behavior change in patients with non-alcoholic fatty liver disease

Lisa Glass, Haila Asefa, Michael Volk, Anna Lok, Monica A. Tincopa

Dietary monosodium glutamate (MSG) acts on TAS1R1/TAS1R3 expressing gastric tuft cells to stimulate ATP release and induce visceral hypersensitivity

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Sa542
Initial results from a multicenter prospective registry evaluating pouch-related outcomes

Sa593
Fermentation product propionic acid produced by specific gut bacteria induces barrier dysfunction and subclinical mucosa inflammation
Yawen Zhang, Jun Gao, Shi-Yi Zhou, Binrui Chen, Ning Dai, Xin Wang, Chung Owyang

Sa602 • AGA Poster of Distinction
The gut microbiota utilizes different signaling mechanisms to stimulate DUOX2 expression in the colon of IBS patients
Jun Gao, Gintautas Grabauskas, Chung Owyang

Sa625
Closed-loop intestinal electrical stimulation synchronized with intrinsic intestinal slow wave ameliorates glucagon-induced hyperglycemia in rats via enhanced release of GLP-1
Shiying Li, Hongbing Zhu, Philippe Fady Moussalli, Jiande Chen

Sa628
M3 cholinergic pathway underlies the hypoglycemic effect of intestinal electrical stimulation via enhanced release of incretin hormones in the postprandial state
Yan Dong, Yiling Zhang, Shiying Li, Jiande Chen

SUNDAY, MAY 23 (cont’d)

10:00 AM • AGA Research Forum
Microbiome and Host Response in IBD
Moderator Introduction: Nobuhiko Kamada

10:31 AM • AGA Clinical Symposium
Jacob E. Kurlander, John N. Mafi, Elliot B. Tapper, Geoffrey Barnes, Caroline R. Richardson, Joel H. Rubenstein, Sameer Dev Saini, Patrick D Meek

10:45 AM • AGA Clinical Symposium
Implementing quality measures in integrated healthcare delivery systems: Endoscopic overuse
Sameer D. Saini

11:01 AM • AGA Research Symposium
The risks and benefits of JAK inhibitors in acute severe UC
Peter D. Higgins

1:00 PM • ASGE Clinical Symposium
ERCP 101
Moderator: Grace Elta

1:02 PM • AASLD Clinical Symposium
Management of HBV in the Young Population
Grace Su

1:03 PM • AASLD Poster of Distinction
Liver transplantation for DILI: Predicting the need and managing the patient
Robert J. Fontana

1:12 PM • AGA Plenary
AGA Clinical Science Plenary
Live Q&A
Emilie C. Breekveldt, Sine Buhl, Li-Chun Chang, John M. Inadomi, Fasiha Kanwal, Jacob E. Kurlander, Benjamin H. Mullish

2:12 PM • AGA Plenary
AGA Clinical Science Plenary
Metabolites and Bioactive Lipids in GI Disease
LIVE Q&A
Matthew A. Ciorba, Sean P. Colgan, Ravinder K. Gill, Costas A. Lyssiotis, Shipra Vaishnava

3:25 PM • DDW Clinical Symposium
Best of DDW 2021
Best of AASLD
Grace Su

3:30 PM • AGA Plenary
Cellular & Molecular Gastroenterology
Section Distinguished Abstract Plenary
Moderator: Linda Samuels

3:30 PM • AGA Plenary
Immunology, Microbiology & Inflammatory Bowel Diseases (IMIBD)
Section Distinguished Abstract Plenary
Moderator Introduction: Peter D. Higgins

3:30 PM • AGA Plenary
Advances in the Pathogenesis, Diagnosis and Treatment of Gastroesophageal Reflux Disease
Moderator Introduction: Joan W. Chen
6:28 PM • AGA Plenary
Clinical Practice Distinguished Abstract Plenary
Validation of tools for predicting incident adenocarcinoma of the esophagus or esophagogastric junction
Joel H. Rubenstein, Trivellore Raghunathan, Cecilia Doan, Jennifer L Schneider, Wei K. Zhao, Valbona Metko, Kimberly Noz, Maryam Khodadost, Douglas A. Corley

POSTER SESSIONS • Sunday
Su007 • ASGE Poster of Distinction
Variability in endoscopic assessment of Nissen fundoplication wrap integrity and hiatus herniation: A multi-center study
Erin J. Song, Renia H. Yadlapati, Joan W. Chen, Alice Parish, Matthew J. Whitson, Karthik Ravi, Amit Patel, Dustin Carlson, Abraham Khan, Donna Niedzwiecki, David A. Leiman

Su085
Prevalence and burden of illness of Rome IV irritable bowel syndrome in the U.S.
Christopher Velasquez Almario, William D. Chey, Carolyn S. Higgins, Brennan Spiegel

Su092
Who reports post-prandial diarrhea? Analysis of a cohort of patients with chronic diarrhea
Rafia Hassan, Prashant Singh, Sarah Bailou, Vanessa Yu, Vikram Rangan, Judy Nee, Johanna Iturrino, Anthony Lembo

Su140
Chronic psychological stress alters gene expression in rat colon epithelial cells associated with barrier dysfunction, inflammation, and chromatin remodeling
John W. Wiley, Gerald A. Higgins, Shuangsong Hong

Su343 • AASLD Poster of Distinction
Ammonia testing is overused and leads to excess lactulose use: A prospective, blinded assessment of ammonia test utility among front-line clinicians
Juan J. Gonzalez, Elliot B. Tapper

Su364
Pill or procedure? Understanding patient preferences regarding beta-blockers as an alternative to endoscopic variceal screening during the COVID-19 pandemic
Zheng Che, Jeremy Louissaint, Ihab Kassab, Elliot B. Tapper

Su474
Healthcare utilization among inflammatory bowel disease patients receiving opioids: A systematic review and meta-analysis
Jessica L. Sheehan, Janson Jacob, Calen Andrew Steiner, Sameer K Berry, Carol Shannon, Shirley Cohen-Mekelburg, Peter D.R. Higgins, Jeffrey Berinstein

Su485
Cannabis users with inflammatory bowel disease in clinical remission have increased levels of subclinical inflammation
Madeline Bertha, Diego Jimenez Lara, Jami Kinnucan, Stephen B. Hanauer

Su554 • AGA Poster of Distinction
Prevalence of sucrase-isomaltase deficiency in adults with irritable bowel syndrome and diarrhea and functional diarrhea: An interim analysis from a prospective US trial
Samuel Chey, William D. Chey, Shanti L. Eswaran

Su562
Does mucosal Akkermansia abundance predict omega fatty acids and PGE2 production after dietary intervention?
Samara Rifkin, Ananda Sen, D. Kim Turgeon, Mack T. Ruffin, Dean E Brenner, Patrick D Schloss, Zora Djuric

Su576
Are all FODMAPs created equal? A blinded, randomized reintroduction trial to determine which FODMAPs drive clinical response in IBS patients
Shanti L. Eswaran, Prashant Singh, Samara Rifkin, William D. Chey

Su577
Does the gut microbiome explain the clinical benefits of green kiwifruit, psyllium, or prunes in US patients with chronic constipation?
Samuel Chey, Christine Marie Bassis, Vincent Bensan Young, William D. Chey, Shanti L. Eswaran
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