

# Beyond the Scope

A REPORT OF THE UCLA DIVISION OF DIGESTIVE DISEASES



Research  
Collaboration  
with  
Colleagues  
**DDW 2015**

## FROM THE DIVISION CHIEFS



**Gary Gitnick, MD, FACC**

Fran and Ray Stark  
Foundation Chair  
Professor of Medicine



**Eric Esrailian, MD, MPH**

Lincy Foundation Chair  
in Clinical Gastroenterology  
Associate Clinical Professor  
of Medicine

## Going **Beyond** the Scope

The UCLA Division of Digestive Diseases is dedicated to providing state-of-the-art care for patients with both chronic and acute digestive disorders. But as important as that is, it represents only part of our mission. Beyond providing state-of-the-art care, we are determined to advance the state of the art.

The main ways we do that are through research and innovation, as illustrated in this issue of *Beyond the Scope*. Beginning on page 2, we list the many sessions during which our faculty are presenting at Digestive Disease Week (DDW) 2015 in Washington, DC. This event, the world's largest gathering of physicians and researchers in the fields of gastroenterology, hepatology, endoscopy and gastrointestinal surgery, offers an opportunity to exchange the latest clinical and laboratory findings – discussions that invariably lead to new ideas and improved approaches to care. We are proud that our faculty are once again playing such a prominent role at this important scientific meeting.

Our Division has a long tradition of groundbreaking research, and on page 6 you can read about three major grants that our physicians and scientists have received to continue to push the state of the art forward. In this era of research-fund austerity, we are proud that our investigators continue to obtain the grants necessary to take advantage of the fast-moving field of biomedical research as they seek to unravel these complex disorders.

We are also pleased to highlight the great honor bestowed on one of our outstanding investigators, Yvette Taché, PhD, who received the 2014 William S. Middleton Award – the highest honor for scientific achievement given to a researcher or clinician by the U.S. Department of Veterans Affairs (see page 1). Dr. Taché, a professor in the UCLA Division of Digestive Diseases since 1982, was the first female recipient of the award since 1960. It is well deserved – she has conducted pioneering work in the field of brain-gut interactions in stress-related gastrointestinal disorders that have paved the way for treatments that can improve countless lives. Dr. Taché is the third UCLA digestive disease researcher to receive this honor, following in the footsteps of George Sachs, DSc, MD (1992) and Neil Kaplowitz, MD (1993).

Finally, in the area of innovation, our Center for Inflammatory Bowel Diseases continues to redefine the way we treat IBD – and, in a broader sense, chronic diseases in general. The center's novel approach focuses on increasing patient value, in part by being more proactive in educating and monitoring patients – including with the use of a unique Web-based platform and mobile application. On page 4, you can read more about this approach and the critical role that the center's nurses play in its success.

We hope you enjoy this issue of *Beyond the Scope*, and that we see you at DDW and beyond as we all work toward improving the lives of patients with digestive disorders.

# Middleton Award Recognizes Yvette Taché's Pioneering Research in Brain-Gut Interactions

For more than three decades, Yvette Taché, PhD, has been a leader in unraveling the complex brain-gut interactions that occur when stress leads to gastrointestinal disorders, paving the way for new treatments. Now, Dr. Taché's pioneering work has been recognized with the highest honor for scientific achievement given to a researcher or clinician by the U.S. Department of Veterans Affairs.

Dr. Taché, a professor in the UCLA Division of Digestive Diseases since 1982, was named winner of the 2014 William



**Yvette Taché, PhD**

Professor of Medicine  
David Geffen School  
of Medicine at UCLA

Director, CURE:  
Digestive Diseases Research  
Center — Animal Core

Co-Director, Center for Neurobiology  
of Stress & Women's Health  
VA Greater Los Angeles  
Healthcare System

S. Middleton Award, which honors senior Veterans Health Administration investigators who have achieved international acclaim for accomplishments in areas of prime importance to the VA's research mission. Dr. Taché is the first female recipient of the Middleton Award since 1960.

"As basic scientists, we are always thinking about how our discoveries might be translated into a better understanding of a disease and improved treatments," says Dr. Taché, associate director of the CURE: Digestive Diseases Research Center at UCLA

and co-director of the Center for Neurobiology of Stress & Women's Health. "To have the VA recognize that this experimental work will have implications on the medical needs of the veteran population is very gratifying."

Brain-gut interaction was a new field when Dr. Taché arrived at UCLA more than three decades ago, but through their efforts in the laboratory, she and her colleagues contributed to a new understanding of the complex brain-gut interactions that occur when stress leads to gut dysfunction. Dr. Taché's group was among the first to demonstrate the role of peptides in brain-gut interactions, and her group was the first to establish the importance of corticotropin-releasing factor (CRF) in stress-related gut function alterations - laying the foundation for the current interest in modulating this pathway as potential therapeutic venue for functional diseases such as irritable bowel syndrome.

Dr. Taché's interest in the mechanisms by which stress contributes to gut dysfunction is rooted in her PhD training at the University of Montreal, where she worked in an internationally renowned neuro-endocrinology laboratory under the mentorship of Dr. Hans Selye, who coined the term "stress" and conducted pioneering research showing its consequences on the body, including the stomach.

"In recent years the study of brain-gut interactions has emerged as an important aspect of gastroenterology research," Dr. Taché says. "I am hopeful that the recognition through this award will encourage young researchers to continue to build on our findings."

## SATURDAY, MAY 16

The Problem of Abdominal Pain: How To Work Up, Evidence On Effective Treatments  
Postgraduate Course General Session  
**Lin Chang**

Managing the Complicated IBS Patient  
Postgraduate Course Clinical Challenge  
Sessions  
**Lin Chang**

Transpapillary drainage has no benefit on treatment outcomes in patients undergoing EUS-guided transmural drainage of pancreatic fluid collections: a multi-center study

Topic Forum  
D Yang, S Amin, S Gonzalez, D Mullady, S Hasak, S Gaddam, SA Edmundowicz, MA Gromski, JM DeWitt, MH El Zein, M Khashab, S Nagula, S Kapadia, J Buscaglia, JC Bucobo, A Schlachterman, MS Wagh, PV Draganov, MK Jung, T Stevens, JJ Vargo, RN Keswani, R Law, S Komanduri, PS Yachimski, T DaVee, A Prabhu, RT Lapp, RS Kwon, **Rabindra R. Watson**, AJ Goodman, N Chhabra, WJ Wang, DL Carr-Locke, CJ DiMaio

Effect of the GLP-1 Analogue Exenatide on Functional Connectivity within Hedonic and Homeostatic Brain Networks in Lean and Obese Women

Research Forum  
**Kristen Coveleskie, Lisa A. Kilpatrick, Arpana Gupta, Cody Ashe-McNalley, Jean Stains, Claudia P. Sanmiguel, Emeran A. Mayer**

Expression of substance P (SP)-regulated miR-31-3p is increased in colitis and modulates RhoA expression in human colonic epithelial cells

Research Forum  
**Kai Fang, Ivy Ka Man Law, Aristeia Sideri, Hon Wai Koon, Dimitrios Iliopoulos, Charalabos Pothoulakis**

Luminal fatty acid sensing regulates mesenteric lymphatic flow and fatty acid transport in rats

Research Forum  
**Kazuyuki Narimatsu, Yasutada Akiba, Izumi Kaji, H Said, Jonathan D. Kaunitz**

Tl1a deficiency, but not Dr3 deficiency, ameliorated murine models of chronic colitis: implications for drug development

Research Forum  
Y Kanazawa, H Zhang, MF Fiorino, AM Hamill, A Von Arx, **Hon Wai Koon, Charalabos Pothoulakis**, J Bilsborough, S Targan, DQ Shih

Anatomical Connections in the Brain Based on Body Mass Index in Lean, Overweight, and Obese Individuals

Poster Session  
**Arpana Gupta, Davis C. Woodworth, Jennifer S. Labus, Claudia P. Sanmiguel, Kirsten Tillisch, Benjamin M. Ellingson, Emeran A. Mayer**

Automated Evaluation of Gastrointestinal Symptoms (AEGIS) Versus Physician Identification of Gastrointestinal Alarm Features

Poster Session  
**Christopher V. Almario**, WD Chey, S Iriana, CB Whitman, G Fuller, MW Reid, R Bolus, RA Dennis, R Encarnacion, BM Martinez, J Talley, **Rushabh Modi**, N Agarwal, A Lee, S Kubomoto, S Bolus, **Lin Chang**, B Spiegel

Brain activation and food intake reduction induced by abdominal surgery in mice: influence of rikkunshito

Poster Session  
**Lixin Wang, Yvette Taché**

Choice of Initial Radiofrequency Ablation Treatment Device in Barrett's Esophagus is Associated with Different Rates of Recurrence and Complications

Poster Session  
WA Wolf, CC Cotton, **V. Raman Muthusamy**, S Eluri, RE Pruitt, T Runge, HC Wolfsen, N Li, S Pasricha, S Komanduri, NJ Shaheen

Combined water exchange and cap-assisted colonoscopy optimizes insertion pain control and completion of colonoscopy without pain in unседated male patients with high yield of proximal colon adenomas

Poster Session  
**Felix W. Leung**, YH Hsieh, JW Leung, **James Sul**, A Yen

Durable Clinical Remission and Response in Adali-mumab-Treated Patients with Ulcerative Colitis

Poster Session  
R Panaccione, JF Colombel, W Sandborn, W Reinisch, GR D'Haens, **Daniel W. Hommes**, S Ghosh, B Pappalardo, J Petersson, AM Robinson, A Lazar, Q Zhou, R Thakkar

Effects of Ethanol, Insulin and Tumor Microenvironment on Hyaluronic Acid Synthetic Capability in Pancreatic Mesenchymal Fibroblasts

Poster Session  
**Richard T. Waldron**, O Shauly, HY Su, **Aurelia Lugea, Stephen Pandol**

Emerging role of gastrointestinal bitter taste receptors in treating type 2 diabetes

Poster Session  
R Abrol, S Morvaridi, H Pham, **Shuping S. Wu**, H Hui, **Stephen Pandol**

Esophageal muscularis mucosa contraction increases transepithelial electrical resistance via the TRP-ATP-P2R pathway in rats

Poster Session  
**Yasutada Akiba, Izumi Kaji, David W. Adelson, Kazuyuki Narimatsu, Jonathan D. Kaunitz**

FFA2 activation suppresses basal and stimulated gastric acid secretion via 5-HT3 receptor activation in rats

Poster Session  
H Said, **Yasutada Akiba, Izumi Kaji, Kazuyuki Narimatsu, Jonathan D. Kaunitz**

IBS patients show altered brain responses during uncertain, but not certain expectation of painful stimulation of the abdominal wall

Poster Session

**Jui-Yang Hong, Bruce D. Naliboff, Jennifer S. Labus, Lisa A. Kilpatrick, Connor Fling, Cody Ashe-McNalley, Jean Stains, Nuwanthi Heendeniya, Suzanne R. Smith, Kirsten Tillisch, Emeran A. Mayer**

Inhibition of ghrelin-O-acyltransferase (GOAT) reduces food intake by increasing satiety in rats

Poster Session

P Teuffel, **Lixin Wang**, P Prinz, M Goebel-Stengel, P Kobelt, T Hofmann, M Rose, BF Klapp, **Joseph R. Reeve**, A Stengel

Laparoscopic Resection (LR) is Not Cost-effective Compared to Endoscopic Resection (ER) in the Management of Large Colon Polyps: An Economic Analysis

Poster Session

R Law, S Komanduri, **V. Raman Muthusamy**, A Rastogi, JJ Vargo, M Wallace, GS Raju, JB Klapman, JN Shah, **Rabindra R. Watson**, SA Edmundowicz, A Das, S Wani

Patients with irritable bowel syndrome (IBS) have reduced blood flow in the prefrontal cortex

Poster Session

**Michelle P. Chen, Paul M. Macey, Jennifer S. Labus, Emeran A. Mayer, Kirsten Tillisch**

Post-colonoscopy discomfort and adverse events in patients enrolled in randomized, controlled trials comparing air insufflation, water immersion and water exchange – a prospective follow up study

Poster Session

YH Hsieh, **Felix W. Leung**, CW Tseng

Predictors of unsuccessful endoscopic mucosal resection (EMR) of complex colon polyps (CCPs): Results from a large multicenter US study

Poster Session

C Almanza, JD Ciolino, D Grande, RH Wilson, MD Canastar, L Hosford, J Makker, **Rabindra R. Watson, V. Raman Muthusamy**, J Shah, JB Klapman, N Fukami, BC Brauer, A Attwell, RJ Shah, S Wani, **Alireza Sedarat**, RY Cortes Lopez, S Komanduri

Suppression of Appetite and Hepatic Steatosis by High Protein Diet in a Murine Model

Poster Session

**John Vu, Suwan Oh, Leon Luong, William F. Parsons, Patrizia M. Germano, Joseph R. Pisegna**

The Preferred Method to Diagnose Small Pancreatic Neuroendocrine Tumors (PNETs) is by Endoscopic Ultrasound-Guided Fine Needle Aspiration Compared to CT-Guided FNA

Poster Session

**Jihane Benhammou, Hala Al-Jiboury, Noam Jacob, Kevin A. Ghassemi, Joseph R. Pisegna**, JJ Farrell

Translocation of Enteric Bacteria, Colonic Dysmotility and Altered Behavior in Blast-type Traumatic Brain Injury in Rats

Poster Session

H Pham, SS Wu, **Muriel H. Larauche**, P Summanen, S Finegold, O Scremin, **Mulugeta Million**

Vasoactive intestinal peptide (VIP) knockout (KO) mice show reduced daily water intake, and body and fecal water content

Poster Session

**Seiichi Yakabi, Lixin Wang, Hiroshi Karasawa, John Vu, Patrizia M. Germano**, K Koike, K Yakabi, **Joseph R. Pisegna, Yvette Taché**

VIP Expression in the Submucosal Plexus in Patients with Parkinson Disease and Chronic Constipation

Poster Session

F Giancola, R Latorre, F Bianco, F Torresan, A Ioannou, M Guarino, G Barbara, R Chiocchetti, P Clavanzani, V Stanghellini, **Catia Sternini**, R De Giorgio

Water exchange colonoscopy reduced sedation requirement without compromising success of cecal intubation in patients accepting the option of on demand sedation in Chinese patients in Hong Kong

Poster Session

VWY Chu, EH Li, ML Cheung, CKM Ng, SCP Ho, WF Luk, ST Lai, **Felix W. Leung**

## SUNDAY, MAY 17

Biliary Stents: Who, Which One, How, and How to Minimize Complications

Breakfast with the Expert

WM Tierney, **Rabindra R. Watson**

Emerging Bench-to-Bedside Treatments of Acute Pancreatitis

Meet-the-Investigator Luncheons

**Stephen Pandol**

Targeting a microRNA for the therapy of colitis-associated colorectal cancer

Plenary Session

**Christos Polytaichou, Daniel W. Hommes, Tiziana Palumbo, Maria Hatzia Apostolou, Georgios Koukos**, AE van der Meulen - de Jong, **Angelos Oikonomopoulos, Welmoed K. van Deen, Christina Vorvis, Marina Koutsoumpa, Eleni Birli, JM Choi, Lin Chang, Peter Anton, Charalabos Pothoulakis, HW Verspaget, Dimitrios Iliopoulos**

Variation in Learning Curves and Competence for Endoscopic Retrograde Cholangiopancreatography Among Advanced Endoscopy Trainees (AETs) Using Cumulative Sum Analysis (CUSUM) – Implication for American Society For Gastrointestinal Endoscopy Society for Gastrointestinal Endoscopy Recommendations for Training

Plenary Session

S Wani, AY Wang, CJ DiMaio, **V. Raman Muthusamy**, RN Keswani, BC Brauer, JJ Easler, RD Yen, I El Hajj, N Fukami, KF Ghassemi, S Gonzalez, L Hosford, TG Hollander, VM Kushnir, J Ahmad, F Murad, A Prabhu, **Rabindra R. Watson**, DS Strand, SK Amateau, R J Shah, SA Edmundowicz, D Mullady

Insertion water exchange, compared to insufflation of air or carbon dioxide and water immersion, enhances the withdrawal detection of adenomas and hyperplastic polyps in the proximal and right colon

Topic Forum

S Cadoni, P Falt, S Sanna, M Argiolas, V Fanari, P Gallittu, M Liggi, D Mura, L Porcedda, V Smajstrla, M Erriu, **Felix W. Leung**

*Continued on page 7*

# By Being Highly Accessible and Proactive, Nurses Play Vital Role in Success of the Center for IBD

Two features that set the UCLA Center for Inflammatory Bowel Diseases (IBD) apart are the accessibility of its healthcare providers for patients who have questions about their care or symptoms, and the proactivity with which the healthcare team educates, monitors and counsels patients. In both cases, the center's nurses are at the forefront of the successful efforts.

The Center for IBD has implemented a new approach to chronic disease management, focused on increasing patient value as measured by the disease control, quality of life and work productivity of patients suffering from Crohn's disease and ulcerative colitis. To achieve that goal, IBD center nurses communicate regularly with patients not only through in-person visits but also by telephone, a secure email system, and the center's Web-based platform and mobile

application. This more intensive role for the IBD center nurses is integral to the management of a disorder that requires close adherence to and monitoring of medications and their effects, education about diet and lifestyle and the ability to recognize and address adverse symptoms.

"This program was designed to transition from symptom-oriented healthcare toward prevention-oriented healthcare," says Daniel Hommes, MD, PhD, the center's director of clinical care and clinical research. "To do that successfully and cost-effectively requires shifting responsibilities so that our nurses have much more one-on-one contact with patients in a role that includes care coordination, education and monitoring. We see this as a model that can succeed well beyond UCLA, as well as for many chronic conditions beyond IBD."

The center has developed an online platform, now available as a free mobile UCLA eIBD app, that is used to closely follow patients. "We call this a tight-control scenario, and a major part of my role is to monitor patients in this scenario," explains Laurin Eimers, RN, BSN, an IBD specialist who serves as clinical nurse coordinator. "They do periodic blood work based on their medications and the condition of their disease, and they regularly fill out home-care questionnaires so that we can track trends over time. This allows us to detect and resolve potential problems before they become major issues."

Eimers notes that patients have participated from the beginning in the development of the app, which includes an e-learning platform, mentor reinforcement, counseling on diet and nutrition and other



**Daniel Hommes, MD, PhD**  
Director: Clinical Care & Clinical Research, UCLA Center for Inflammatory Bowel Diseases  
Director, GI Quality Program  
Professor of Medicine



**Christina Ha, MD**  
Associate Director, Clinical Care, UCLA Center for Inflammatory Bowel Diseases  
Assistant Clinical Professor of Medicine



**Laurin Eimers, RN, BSN**



**Ellen Kane, RN, BS, CCRP**



resources - all with an eye toward a more comprehensive view of the patient. "Patients tell us where they need support and teach us how we can best contribute to the control of their disease," she says. "The communication is extremely important - they value that I go the extra mile in being constantly available to hear their questions and concerns. Traditionally in medicine, we wait for patients to come to us and tell us they aren't feeling well. This preventive approach means that patients don't have to go to the clinic as frequently, don't have as many emergency room visits, and in many cases are able to avoid surgery."

As a clinical coordinator, Eimers brings in other members of the multidisciplinary team as needed, but to the extent that she is able to respond to many of the patients' inquiries, she is able to address many issues that would traditionally require additional, potentially unnecessary, outpatient office visits - a major contributor to reducing costs and

increasing the value quotient, Dr. Hommes notes.

The nursing role is also prominent in fulfilling the program's research mission - which in turn is used to improve patient care. Ellen Kane, RN, BS, CCRP, manages the IBD research activities based on protocols initiated by investigators, pharmaceutical companies and others. In that role, Kane is in close contact with patients. "We explain the importance of our program's research to patients and ask them to participate, and most of them are very happy to do anything that will help advance the management of their disease," Kane says.

For patients who give their consent, such participation includes providing specimens for the program's biobank, as well as responding to questionnaires designed to glean information that can be studied. Other research initiatives are seeking to identify biomarkers to predict a patient's response to specific medications, as well as to "reset" the IBD patient's immune system through a hematopoietic stem cell transplant.

The unusual level of rapport between the IBD center nurses and patients begins with the first visit, when the new patient meets one-on-one with a nurse after being seen by a physician; it continues to pay off as patients'

individual care plans are fine-tuned over time. "When the physician has just gone over a lot of information, it can leave a patient feeling overwhelmed," says Christina Ha, MD, the center's associate director for clinical programs.

"After an initial office visit, it makes a big difference to have a nurse reviewing the care plan; providing some basic education about the patient's disease and aspects of nutrition, wellness and work/life balance; answering any questions; and then being available for follow-up when the patient gets home. As a result of the work that our nurses do, not only is adherence to medication therapy higher, but patients are happier. They feel like they're being treated as an overall person, not just having their gut treated."

For the IBD center nurses, going the extra mile is well worth it when they see the results. "We hear from patients who say they are finally comfortable leaving the house because they no longer have to be near a bathroom at all times," says Eimers. "We have a patient who is finally able to take his son to the park now that his disease is under control, and another who is no longer afraid to walk down the aisle at her wedding. To be able to help them lead better lives is incredibly rewarding."

*This preventive approach means that patients don't have to go to the clinic as frequently, don't have as many emergency room visits, and in many cases are able to avoid surgery.*

## UCLA Division of Digestive Diseases Welcomes New Faculty Member

### Melissa A. Munsell, MD | Assistant Clinical Professor of Medicine

Dr. Munsell attended the University of Illinois at Urbana-Champaign where she received her bachelor of science in biology and psychology with a minor in chemistry. She earned her medical degree from the University of Chicago Pritzker School of Medicine and completed her internship and residency in internal medicine with the Osler Medical Service at Johns Hopkins. She continued at Johns Hopkins for gastroenterology fellowship. During fellowship she had an interest in inflammatory bowel diseases and was a visiting fellow at the Cedars-Sinai Inflammatory Bowel Disease Center.



Following her training, Dr. Munsell worked as an attending physician with the Southern California Permanente Medical Group where she practiced general gastroenterology with an interest in inflammatory bowel diseases and motility disorders. She was integral in beginning an inflammatory bowel disease subgroup. She was involved in the interpretation of esophageal motility studies and capsule endoscopy. She is board-certified in internal medicine and gastroenterology.

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## Grants Continue to Help Fund UCLA Biomedical Research

Never before have the tools of scientific study been so powerful, opening the door to dramatic breakthroughs in our understanding of and ability to treat diseases that have affected countless lives. In an era of reduced federal funding of biomedical research, though, investigators across the country are challenged to find support for these promising efforts. The UCLA Division of Digestive Diseases continues to secure such funding on the strength of our world-class physicians and scientists. Below are the largest grants recently received:

#### **Project Title: CURE: Digestive Diseases Research Center**

PI Name: Enrique Rozengurt, DVM, PhD

Sponsor Agency: NIH-NIDDK

Project Dates: 2/2/2015-11/30/2019

Total Dollars: \$4,682,275

#### **Grant Title: MAPP Research Network Second Phase**

PI Name: Emeran Mayer, MD, PhD

Dates of Award: 9/15/2014-6/30/2019

Total Dollars: \$3,232,970

#### **Project Title: Extragustatory Functions of Bitter Taste Receptors**

PI Name: Catia Sternini, MD

Sponsor Agency: NIH-NIDDK

Project Dates: 4/15/2015-3/31/2019

Total Dollars: \$1,386,000





## MAY 17 (continued from page 3)

Reassessment of Ulcer Bleeds with Adherent Clots Using Arterial Blood Flow as a Guide to Definitive Hemostasis

Topic Forum

**Dennis M. Jensen, Thomas O. Kovacs, Gordon V. Ohning, Kevin A. Ghassemi, Jeffrey R. Lewis**, GS Dulai, GA Machicado

State-of-the-Art – Optimizing Your Adenoma Detection Rate

Topic Forum

**Felix W. Leung**

10-Year Experience of a Large Liver Transplant Center: Routine, Non-Invasive Blood Tests are Predictive of Significant Fibrosis in Hepatitis C Patients Following Liver Transplantation

Research Forum

**Victoria Sheen**, H Lee, M Jimenez, V Agopian, S Vangala, D Elashoff, **Sammy Saab**

Crosstalk between PKD1 and  $\beta$ -catenin signaling pathways in PKD1 transgenic mice and cultures of intestinal epithelial cells

Research Forum

**James Sinnett-Smith, Yang Ni, Nora Rozengurt, Steven H. Young, Enrique Rozengurt**

A Novel Submucosal Injection Solution is Superior to Saline in Facilitating ESD Performed by Western Endoscopists

Poster Session

**Rabindra R. Watson**, JB Klapman, S Komanduri, L Hosford, JN Shah, S Wani, **V. Raman Muthusamy**

Barrett's Esophagus Advanced Neoplasia Calculator (BANC): A Personalized, Web-based Predictive Model of High Grade Dysplasia and Adenocarcinoma Following Successful Eradication of Barrett's Esophagus with Radiofrequency Ablation

Research Forum

CC Cotton, LC Duits, WA Wolf, **V. Raman Muthusamy**, S Eluri, RE Pruitt, T Runge, HC Wolfsen, N Li, S Pasricha, S Komanduri, NJ Shaheen

Effects of Rifaximin on Urgency, Bloating, and Abdominal Pain in Patients with IBS-D: A Randomized, Controlled, Repeat Treatment Study

Research Forum

WD Chey, **Lin Chang**, A Lembo, K Aggarwal, E Bortey, C Paterson, WP Forbes

Enhanced stimulated stress hormone response in irritable bowel syndrome (IBS) is associated with downregulation of glucocorticoid receptor expression

Research Forum

MA Adeyemo, W Shih, AP Presson, **Swapna M. Joshi, Emeran A. Mayer, Lin Chang**

Antimicrobial peptide cathelicidin inhibits obesity in diabetic mice via inhibition of CD36 fat receptor expression

Poster Session

**Deanna H. Tran, Diana Hoang-Ngoc Tran, S Anjani Mattai, Samantha Ho, Aristeia Sideri, Kyriaki Bakirtzi, Iordanis Karagiannidis, DQ Shih, Simon W. Beaven, Hon Wai Koon**

Evidence to suggest adoption of water exchange (WE) deserves broader consideration: The pain alleviating impact of WE occurs in 90% of investigators

Poster Session

S Cadoni, P Falt, S Sanna, M Argiolas, V Fanari, P Gallittu, M Liggi, D Mura, L Porcedda, V Smajstrla, M Erriu, **Felix W. Leung**

High protein diet improves meal pattern and response to cholecystokinin (CCK) in high fat diet-induced obese rats

Poster Session

**Lixin Wang, Joseph R. Reeve, Joseph R. Piseigna, Yvette Taché**

Identification of a novel function of corticotropin releasing factor (CRH) in the repair of intestinal epithelium in DSS colitis

Poster Session

P Giannogonas, AP Apostolou, P Agrafiotou, C Tamvakopoulos, **Charalabos Pothoulakis**, KP Karalis

Intestinal adiponectin receptor 1 (AdipoR1) modulates inflammation during colitis: A potential link in adipose tissue-intestinal crosstalk during inflammatory bowel disease

Poster Session

**Aristea Sideri, Hon Wai Koon**, DQ Shih, **Charalabos Pothoulakis, Iordanis Karagiannidis**

Pancreas-specific deletion of protein kinase D attenuating necrosis during experimental pancreatitis is associated with alteration of cell death signaling proteins

Poster Session

**Jingzhen Yuan, Lucy Li, T Tan, Stephen Pandol**

Rapid Assessment of Trainee Endoscopy Skills (RATES) Study: A Prospective Multicenter Study Evaluating Competence in Endoscopic Ultrasonography (EUS) and Endoscopic Retrograde Cholangiopancreatography (ERCP) Among Advanced Endoscopy Trainees (AETs)

Poster Session

S Wani, D Mullady, DS Early, CJ DiMaio, RN Keswani, A Rastogi, **V. Raman Muthusamy**, GA Cote, L Hosford, L Carlin, S Ellert, S Ouellet, RJ Shah, AY Wang, SA Edmundowicz

Remote monitoring of IBD disease activity using the mobile Health Index (mHI): A validation study

Poster Session

**Welmoed K. van Deen**, AE van der Meulen - de Jong, NK Parekh, Y Muyschondt, **Ellen Kane, Laurin Eimers, Elizabeth K. Inerra, Aria Zand, Courtney A. DiNicola, S Bhatia, JM Choi, Christina Ha, Martijn G. van Oijen, Eric Esrailian, Daniel W. Hommes**

The trans-golgi network protein aftiphilin is involved in regulation of intestinal epithelial permeability in colonic epithelial cells

Poster Session

**Ivy Ka Man Law, Charalabos Pothoulakis**

Predictive Overbooking Maximizes Endoscopy Utilization in an Outpatient Clinic Distinguished Abstract Plenary MW Reid, **Folasade P. May**, SE Cohen, F Dailey, B Spiegel

Continued on page 8

# MONDAY, MAY 18

Regional brain morphology is associated with gut microbial metabolites in irritable bowel syndrome (IBS)

Distinguished Abstract Plenary

**Jennifer S. Labus**, N Oezguen, EB Hollister, **Kirsten Tillisch**, T Savidge, J Versalovic, **Emeran A. Mayer**

Post-Operative Gastrointestinal (GI) Telemetry with a Wearable Acoustic Biosensor Distinguishes Ileus vs. Uneventful GI Recovery

Plenary Session

**Marc Kaneshiro**, W Kaiser, P Fleshner, MM Russell, A Lin, KN Zaghiyan, JS Pourmorady, BM Martinez, A Patel, AP Nguyen, D Singh, V Zegarski, B Spiegel

Keeping Your Patient with Cirrhosis Alive

Breakfast with the Expert

**Bruce A. Runyon**, MW Russo

Difficult Problems in ERCP: A Case-Based Approach

Meet-the-Professor Luncheon

**V. Raman Muthusamy**, O Haluszka

A novel epigenetic regulator of pancreatic cancer growth

Topic Forum

**Marina Koutsoumpa**, **Maria Hatzia Apostolou**, **Christos Polytarchou**, **Christina Vorvis**, **Swapna M. Joshi**, **Dimitrios Iliopoulos**

Red Cell Transfusions Do Not Increase 30 day Mortality Rates for Unselected Patients with Severe UGI Hemorrhage

Topic Forum

**Dennis M. Jensen**, D Markovic, **Mary Ellen Jensen**, J Gornbein

Comparison of insertion techniques for luminal distention for on-demand sedation colonoscopy: air insufflation, carbon dioxide and water-aided colonoscopy - a two-center randomized controlled trial

Topic Forum

S Cadoni, P Falt, P Gallittu, M Liggi, D Mura, V Smajstrla, M Erriu, **Felix W. Leung**

Corticotropin-releasing hormone receptor 2 mediates epithelial cell proliferation, apoptosis and mucosal repair following colitis

Research Forum

**Jill M. Hoffman**, **Stavroula Baritaki**, **Jonathan J. Ruiz**, **Aristea Sideri**, **Charalabos Pothoulakis**

Effect of  $\mu$  Opioid Receptor Activation on Proteins Modulating Inflammation and Barrier Function in Intestinal Ischemia-Reperfusion

Research Forum

**Celine C. Duraffourd**, **Jessica Tsui**, **Nick Brecha**, **Catia Sternini**

IBS Patients Have SCN5A Mutations That Result in Decreased NaV1.5 Current and Mechanosensitivity

Research Forum

L Neshatian, PR Stregge, A Beyder, CE Bernard, A Mazzone, SJ Gibbons, DJ Tester, ML Will, **Emeran A. Mayer**, **Lin Chang**, MJ Ackerman, G Farrugia

Increased expression of  $\mu$  opioid and cannabinoid receptors in the colonic mucosa of patients with irritable bowel syndrome (IBS)

Research Forum

**Giovanni Dothel**, **Lin Chang**, W Shih, MR Barbaro, V Stanghellini, F De Ponti, **Emeran A. Mayer**, G Barbara, **Catia Sternini**

Red Cell Transfusions Do Not Increase 30 day Mortality Rates for Unselected Patients with Severe UGI Hemorrhage

Research Forum

**Dennis M Jensen**, D Markovic, **Mary Ellen Jensen**, F Gornbein

Varying quality of dysplasia surveillance colonoscopies for the inflammatory bowel disease (IBD) patient (Poster Presentation)

Committee Sponsored Symposium

**Andrew D. Ho**, NN Jamaluddin, **Christina Ha**

Active Recruitment Increases Uptake of Endoscopy Among African-American and Asian-American Patients

Poster Session

**Folasade P. May**, MW Reid, SE Cohen, B Spiegel

Adiposity is associated with alterations within the brain reward system in adult subjects

Poster Session

**Claudia P. Sanmiguel**, **Arpana Gupta**, **Jennifer S. Labus**, **Kristen Coveleskie**, **Iordanis Karagiannidis**, **Mher Alaverdyan**, **Cody Ashe-McNalley**, **Jean Stains**, **Suzanne R. Smith**, **Kirsten Tillisch**, **Lin Chang**, **Emeran A. Mayer**

Adverse Childhood Experiences are Associated with Irritable Bowel Syndrome and Gastrointestinal Symptom Severity

Poster Session

**Sarah Park**, W Shih, AP Presson, **Emeran A. Mayer**, **Lin Chang**

Cathelicidin Mimic Ceragenin CSA13 Modulates Clostridium Difficile Associated Colitis and Toxin A Mediated Enteritis in Mice

Poster Session

**Bowei Su**, **Sally Ghali**, **Samantha Ho**, **Jung Eun Lee**, **Diana Hoang-Ngoc Tran**, X Chen, CP Kelly, **Hon Wai Koon**

Characterizing the Effect of Rifaximin on Individual Symptoms of IBS-D: Findings From the Open-Label Phase of TARGET 3

Poster Session

**Lin Chang**, M Pimentel, A Lembo, AC Barrett, J Yu, E Bortey, C Paterson, WP Forbes

Comparison of Symptoms, Health Care Utilization, and Treatment in Diagnosed and Undiagnosed Patients with IBS with Diarrhea

Poster Session

**Lin Chang**, K Aggarwal

Corticotropin-releasing hormone receptor 2 (CRHR2) inhibits colorectal cancer immune-escape through regulation of Fas/FasL signaling

Poster Session

**Jonathan Gevorkian**, HW Verspaget, **Daniel W. Hommes**, **Lin Chang**, **Charalabos Pothoulakis**, **Stavroula Baritaki**

Determining Predictors of Higher Mortality in Inpatients with Gastrointestinal Bleeding (GIB)

Poster Session

**Carl Nordstrom**, MW Reid, SS Karsan, B Spiegel

Disease Relevant Components of Mindfulness in Irritable Bowel Syndrome (IBS)

Poster Session

**Kirsten Tillisch, Zafar S. Gill, Jennifer S. Labus, Jean Stains, Suzanne R. Smith, Bruce D. Naliboff**

Durability of Benefit in IBS-D Patients Responding to a 2-week Course of Rifaximin: Results from TARGET 3

Poster Session

M Pimentel, **Lin Chang**, A Lembo, AC Barrett, J Yu, E Bortey, C Paterson, WP Forbes

Effects of Baseline Abdominal Pain on Response to Lubiprostone in Patients with Constipation-Predominant Irritable Bowel Syndrome

Poster Session

**Lin Chang**, WD Chey, DA Drossman, TR Losch-Beridon, M Wang, P Lichtlen, SM Mareya

Enduring Effects Following a Course of Rifaximin Therapy in Patients with IBS-D: Incremental Benefit Upon Repeat Treatment

Poster Session

BE Lacy, M Pimentel, **Lin Chang**, AC Barrett, J Yu, E Bortey, C Paterson, WP Forbes

Genome-wide Transcriptional Profiling Demonstrates Differences Between Irritable Bowel Syndrome (IBS), Inflammatory Bowel Disease (IBD) and Healthy Controls

Poster Session

**Swapna M. Joshi, Emeran A. Mayer, Lin Chang**

High Protein Diet Improves Body Mass Index and Visceral Adiposity and Induces Satiety in a Human and Rat Model of Obesity

Poster Session

**Deepinder Goyal, Lixin Wang, Gigi Kwok, Jihane Benhammou, Gordon V. Ohning, Yvette Taché, Joseph R. Pisegna**

Hypergastrinemia Associated with Gastrointestinal Dysmotility is Mediated by Vasoactive Intestinal Polypeptide (VIP)

Poster Session

**Jihane Benhammou, Noam Jacob, John Vu, Gordon V. Ohning, Patrizia M. Germano, J Waschek, Joseph R. Pisegna**

Incidence of Recurrence of Intestinal Metaplasia (IM) and Early Neoplasia (EN) After Endoscopic Eradication Therapy (EET) for Barrett's Esophagus (BE): A Systematic Review and Meta-analysis

Poster Session

LL Fujii-Lau, S Gaddam, DS Early, SA Edmundowicz, S Komanduri, **V. Raman Muthusamy**, A Das, VM Kushnir, D Mullady, F Murad, S Wani

Inhibition of microRNA-29a in human bone marrow mesenchymal stem cells increases their immunomodulatory function

Poster Session

**Angelos Oikonomopoulos, Christos Polytarchou, Precious Lacey, Tamera A. Tomakili, Maria Hatziapostolou, Georgios Koukos, Daniel W. Hommes**

Internal consistency and test-retest reliability of the Early Trauma Inventory Self Report-Short Form (ETI-SR) in patients with irritable bowel syndrome (IBS) and healthy controls

Poster Session

**Elizabeth J. Videlock, Cathy Liu, W Shih, Bruce D. Naliboff, Emeran A. Mayer, Lin Chang**

Longitudinal Changes in Brain Morphometry Associated with Abdominal Pain and Anxiety in Pre-adolescent Children

Poster Session

**Arpana Gupta, Monica Trent, Jennifer S. Labus, Mher Alaverdyan**, K Carpenter, A Angold, N Zucker, **Emeran A. Mayer**, HL Egger

Myeloid differentiation factor 88 (Myd88) is the linchpin of anti-tumor immunity against phosphatase and tensin homologue (Pten)-associated intestinal tumor development and metastasis

Poster Session

E Im, YS Kim, YS Kim, **Charalabos Pothoulakis, Sang H. Rhee**

N-terminal phosphorylation of protein kinase D1 (PKD1) in intestinal epithelial cells: A new input in PKD1 regulation

Poster Session

**James Sinnett-Smith, Yang Ni, Enrique Rozengurt**

Neurobiology of psychological resilience in irritable bowel syndrome (IBS) and inflammatory bowel disease (IBD) patients

Poster Session

**Lisa A. Kilpatrick, Arpana Gupta, Aubrey D. Love, Jennifer S. Labus, Mher Alaverdyan, Kirsten Tillisch, Bruce D. Naliboff, Emeran A. Mayer**

Race and Ethnicity Predict Lack of Physician Recommendation for Colorectal Cancer Screening

Poster Session

**Folasade P. May, Christopher V. Almario, NA Ponce, B Spiegel**

Regulation of YAP localization and phosphorylation in intestinal epithelial cells

Poster Session

**Jian Wang, James Sinnett-Smith, Enrique Rozengurt**

Regional grey matter properties in the sensorimotor network correlate with measures of visceral sensitivity, though vary with disease status and sex

Poster Session

C Grinsvall, **Connor Fling, Jennifer S. Labus, Arpana Gupta**, M Elam, **Emeran A. Mayer**, M Simren

Role of the Hippo-YAP pathway in the regulation of DNA synthesis by cAMP in intestinal epithelial cells and Swiss 3T3 fibroblasts

Poster Session

**Jia Wang, James Sinnett-Smith, Yang Ni, Enrique Rozengurt**

The association of early adverse life events and irritable bowel syndrome (IBS) is amplified by the presence of peritraumatic fear

Poster Session

**Elizabeth J. Videlock, Cathy Liu, W Shih, Bruce D. Naliboff, Emeran A. Mayer, Lin Chang**

The jasmonate analogue 2-hydroxyethyl 5-chloro-4,5-didehydrojasmonate exerts anti-inflammatory effects in colitis

Poster Session

J Chu, Y Lee, X Yan, SJ Kim, S Son, **Charalabos Pothoulakis**, HR Moon, JH Jung, E Im

Using an Automated Diagnostic Algorithm that Utilizes Electronic Health Records and Natural Language Processing to Define a Population with Cirrhosis

Poster Session

**Edward K. Chang, Christine Y. Yu**, R Clarke, AD Hackbarth, T Sanders, **Eric Esrailian, Daniel W. Hommes, Bruce A. Runyon**

Zolpidem confers disease susceptibility to Clostridium difficile infection

Poster Session

S Dann, S Aitken, C Ross, MEM Tessier, M Loeffelholz, K Koussoulas, JC Bornstein, H Feng, J Versalovic, **Charalabos Pothoulakis**, KW Garey, T Savidge

## TUESDAY, MAY 19

Management of Pancreatic Neuroendocrine Tumors

Meet-the-Professor Luncheons

**Joseph R. Pisegna, Jihane Benhammou**

Randomized Controlled Trial (RCT) of Doppler Endoscopic Probe (DEP) for Blood Flow Detection in Severe Non-Variceal UGI Hemorrhage (NVUGIH)

Late-Breaking Abstract Session

**Dennis M. Jensen, Thomas O. Kovacs, Gordon V. Ohning, Kevin A. Ghassemi, GA Machicado, GS Dulai, Alireza Sedarat, Jeffrey R. Lewis, Rome Jutabha, J Gornbein**

All-Oral 12-Week Combination Treatment with Daclatasvir (DCV) and Sofosbuvir (SOF) in Treatment-Experienced Patients Infected with HCV Genotype (GT) 3: A Subanalysis of the ALLY-3 Phase 3 Study

Topic Forum

D Nelson, D Bernstein, B Freilich, E Lawitz, T Hawkins, PJ Pockros, PJ Thuluvath, ZH Younes, M Bennett, R Ghalib, PJ Ruane, **Myron J. Tong**, R Bhore, PD Yin, S Noviello, K Rana

Characteristics and Outcomes of Pancreatic Cystic Neoplasms with Indeterminate CEA Levels Obtained by Endoscopic Ultrasound Guided Fine-Needle Aspiration (EUS-FNA): Results of a Multicenter Study

Topic Forum

D Jaiyeola, D Grande, S Wani, BC Brauer, N Fukami, RJ Shah, SK Amateau, RD Yen, RD Schulick, BH Edil, L Hosford, T Donahue, **V. Raman Muthusamy, Rabindra R. Watson, Alireza Sedarat, Jitin Makker, Phillip S. Ge, D Mullady, SA Edmundowicz, RR Azar, F Murad, VM Kushnir, DS Early, S Gaddam, D Gregory, RN Keswani, S Komanduri**

Disease-associated enterotypes and metabotypes in families with pediatric inflammatory bowel disease

Combined Research Forum

**Jonathan P. Jacobs**, M Tong, I McHardy, M Goudarzi, P Ruegger, D McGovern, J Borneman, AJ Fornace, M Dubinsky, **Jonathan Braun**

A Cost-Effectiveness Analysis of LDV/SOF+RBV for 12 Weeks vs. LDV/SOF 24 Weeks vs. SOF+SMV 24 Weeks in CHC GT1 TE Cirrhotic Patients

Research Forum

A Ahmed, DT Dieterich, H Park, **Sammy Saab**, SC Gordon, ZM Younossi

Colloidal Bismuth Subcitrate (CBS) raises internal pH of Helicobacter pylori by impeding proton import, leading to increased metabolism and increased efficacy of growth dependent antibiotics

Research Forum

**Elizabeth A. Marcus, George Sachs, David R. Scott**

Gene expression profiles in peripheral blood mononuclear cells (PBMCs) correlate with structural and functional brain networks in chronic visceral pain

Research Forum

**Arpana Gupta, Steve Cole, Jennifer S. Labus, Trang J. Nguyen, Swapna M. Joshi, Lisa A. Kilpatrick, Kirsten Tillisch, Lin Chang, Emeran A. Mayer**

Novel ghrelin agonist HM01 reverses postoperative gastric ileus (POGI) by its dual prokinetic and anti-inflammatory actions through activation of vagal cholinergic pathway in rats

Research Forum

**Pu-Qing Yuan, Shuping S. Wu**, C Pietra, **Yvette Taché**

Racial and Ethnic Disparities in Colonoscopy Utilization Among Individuals with a Family History of Colorectal Cancer

Research Forum

**Christopher V. Almario, Folasade P. May**, NA Ponce, B Spiegel

Role of Sex Hormones and Sex Chromosomes in Mechanically-Induced Visceral Hyperalgesia in Mice

Research Forum

**Muriel H. Larauche, Mandy Biraud**, R Mackie, A Arnold, **Yvette Taché**

State-of-the-Art: IBS and the CNS

Research Forum

**Kirsten Tillisch**

Continuous Neonatal Chronic Stress Influences Basal Visceral Sensitivity in a Sex-Dependent Manner in Adult Wistar Rats

Poster Session  
**Muriel H. Larauche, Mandy Biraud, J Molet, Mulugeta Million, Yvette Taché**

Dual PI3K/mTOR inhibitors induce rapid over-activation of the MEK/ERK pathway in human pancreatic cancer cells through suppression of mTORC2

Poster Session

**Heloisa P. Soares, Ming Ming, Steven H. Young, James Sinnott-Smith, Enrique Rozengurt**

Endoscopic assessments of inflammatory bowel disease activity by practicing gastroenterologists

Poster Session

NN Jamaluddin, **Andrew D. Ho, Christina Ha**

*Continued on page 11*

Integrated care pathways for inflammatory bowel disease Surgery: Design and first analysis

Poster Session

**Rutger J. Jacobs, Sarah Reardon, Dipti Sagar, Tijmen J. Hommes, Daniel J. Margolis, Ellen Kane, Welmoed K. van Deen, Laurin Eimers, Elizabeth K. Inerra, Natalie Duran, JM Choi, Christina Ha, Bennett E. Roth, Andrew D. Ho, Eric Esrailian, J Sack, Daniel W. Hommes**

Interference with septin dynamics induces ErbB2 degradation in gastric cancer cells

Poster Session

**Elizabeth A. Marcus, Elmira Tokhtaeva, JR Capri, J Whitelegge, David R. Scott, George Sachs, Olga Vagin**

Initial experience with a novel EUS-guided core biopsy needle (SharkCore™): A North American multicenter study

Poster Session

CJ DiMaio, JM Kolb, PC Benias, O Haluszka, JL Maranki, K Sharzahi, J Nieto, DK Pleskow, TM Berzin, M Sawhney, E Aljahdi, V Kaul, S Kothari, TH Kothari, EC Lam, CK Wong, NR Sharma, S Ho, M . Izzy, **Rabindra R. Watson, V. Raman Muthusamy**, FG Gress, A Sethi, AR Shah, M Ryou, PZ Kaimakliotis, SB Allaparthi, SR Gordon, SM Hyder, P Gupta, D Yang, S Gonzalez, DG Adler

Lyn is a key regulator of stellate cell chemotaxis and infiltration in human chronic pancreatitis

Poster Session

**H Pham, V Cirulli, Stephen Pandol, Andrzej Ptasznik**

Modulation of Visceral Pain by Stress: Dose-Dependent Visceral Analgesia Induced by Central Injections of Corticotropin-Releasing Factor (CRF) in Male Rats

Poster Session

**Muriel H. Larauche, Henri Duboc, Mandy Biraud, Mulugeta Million, Honghui Liang, Yvette Taché**

Neural FFA3 activation inversely regulates cholinergic secretory function in rat proximal colon

Poster Session

**Izumi Kaji, Yasutada Akiba, Kazuyuki Narimatsu, Jonathan D. Kaunitz**

Presence of Diabetes and Chronic Liver Disease is Associated with an Increased Risk for Overall Mortality: A Population Study from the United States

Poster Session

S Clement, M Stepanova, R J Wong, **Sammy Saab**, A Ahmed, ZM Younossi

Projection of Health Outcomes Comparing LDV/SOF VS. SOF+SMV – An Analysis Based on Clinical Trial vs. Real-World Data

Poster Session

H Park, A Ahmed, DT Dieterich, **Sammy Saab**, SC Gordon, ZM Younossi

Randomized Trial Comparing Diagnostic Yield of Cytologist-guided Versus 7 Passes for EUS-FNA of Pancreatic Masses

Poster Session

LS Lee, J Nieto, **Rabindra R. Watson**, A Hwang, **V. Raman Muthusamy**, K Jajoo, M Ryou, JR Saltzman, MD Saunders, SL Suleiman, V Kadiyala

Regulation of colon cancer metabolism by a long non-coding RNA

Poster Session

**Maria Hatziapostolou, Marina Koutsoumpa, F Kottakis, Daniel W. Hommes, HW Verspaget, Dimitrios Iliopoulos, Christos Polytarchou**

Role of AMPK in the inhibitory effects of metformin and berberine on mTORC1, ERK, DNA synthesis and proliferation in human pancreatic cancer cells

Poster Session

**Ming Ming, Jia Wang, James Sinnott-Smith, Steven H. Young, Heloisa P. Soares, Enrique Rozengurt**

Safety and Efficacy of Ledipasvir/Sofosbuvir for the Treatment of Genotype 1 Hepatitis C in Patients Aged 65 Years or Older: A Retrospective Analysis of Phase 3

Poster Session

**Sammy Saab**, M Mizokami, M Omata, A Mangia, E Eggleton, S Seyedkazemi, Y Zhu, SJ Knox, P Pang, GM Subramanian, K Kowdley, NH Afdhal

The Effect of Pre-Treatment Stricture on Outcomes after Radiofrequency Ablation (RFA) for Barrett's Esophagus: Results from the U.S. RFA Registry

Poster Session

S Eluri, N Li, BF Overholt, S Pasricha, CJ Lightdale, T Runge, A Infantolino, WA Wolf, **V. Raman Muthusamy**, CC Cotton, RE Pruitt, NJ Shaheen

The impact of a value-based health program for inflammatory bowel disease management on healthcare utilization

Poster Session

**Welmoed K. van Deen**, AB Ozbay, M Skup, **Martijn G. van Oijen, Adriana Centeno, Bennett E. Roth, Natalie Duran, Precious Lacey**, D Jatulis, MJ Belman, **Eric Esrailian, Daniel W. Hommes**

Time-driven Activity Based Costing: Measuring the Costs of Implementing Quality Measures in Inflammatory Bowel Disease (IBD)

Poster Session

**Andrew D. Ho, Christine Y. Yu, Welmoed K. van Deen, Adriana Centeno, Laurin Eimers, Elizabeth K. Inerra, Natalie Duran, JM Choi, Christina Ha, Bennett E. Roth, Eric Esrailian, Daniel W. Hommes**

Undetectable HCV RNA levels at treatment week 4 (TW4) with Sofosbuvir (SOF) and Simeprevir (SMV) for genotype 1 Hepatitis C virus may predict sustained virologic response at 12 weeks after treatment (SVR12): Results from an academic Veterans Healthcare Center

Poster Session

**Noam Jacob**, JK Kawamoto, PS Belperio, **Steven-Huy B. Han**, D Bhattacharya, JP Smith, **Alan Sheinbaum, Neville R. Pimstone**

Use of a Standardized Clinical Assessment and Management Plan to Demonstrate Barriers to Trough Level and Antibody Level Testing in Patients on Anti-Tumor Necrosis Factor Therapy for Inflammatory Bowel Disease

Poster Session

EL Barnes, JS Levine, **Vikas Pabby**, G Ciociolo, R Ghazinouri, JO Greenberg, K Laskowski, SR McLaughlin, D Graham, PA Banks, M Currier, PS de Silva, S Friedman, MJ Hamilton, JR Korzenik, FL Makrauer, B Norton, SB Snapper, M Tomczak, R Burakoff



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